8.0 Parts Lists

8.1 ASSY: 5007-00 06 MODEL 7000 - SAO2 AND ETCO2 MONITOR

LINE	PART NO	REV	QPA	DESCRIPTION
0001	1003-32	02	1	SERIAL NO. LABEL
0002	1217-32	02	1	REPAIR LABEL
0003	4470-32	00	1	LABEL, CAUTION GROUNDING
0004	4509-32	00	1	WARRANTY LABEL
0005	4977-13	02	1	TOP COVER SCREENED, MODELS 7000
0006	5007-01	06	1	MAIN ASSY, METAL BOX, MODEL 7000
0007	286214		0	SCREW #6-32*3/8 LG. OVAL PHILLIPS HD. NICLE
0008	600026		1	LINE CORD,7 1/2 FT,HOSP GR PLUG & BUS MACHINE
0009	5039-10	00	2	BOARD RETAINER, MODEL 7000
0010	5007-06	XX	0	OPTION LIST, MODEL 7000
0011	5007-09	02	0	OVERALL WIRING DIAGRAM, METAL BOX, MODEL 7000
0012	5125-32	00	1	LABEL, FUSE RATING, 95VA, 2A SLO-BLO
0013	5007-23	XX	1	OPERATORS MANUAL, MODEL 7000
0014	5007-90	XX	1	SERVICE MANUAL, MODEL 7000
0015	5007-04	XX	0	TEST PROCEDURE, PREBURN, MODEL 7000

8.2 ASSY: 5007-01 06 MAIN ASSY, METAL BOX, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2400-01	06	1	MOTHER BOARD ASSY, MODEL 7000
0002	240006		2	RUBBER BUMPER W STEEL WASHER INSERTS
0003	240045		2	FOOT WITH TIP-UP
0005	2401-01	03	1	POWER SUPPLY BOARD ASSY, MODEL 7000
0006	2402-01	04	1	CPU MEMORY BOARD ASSY, MODEL 7000
0007	2403-01	04	1	MAIN CPU BOARD ASSY, MODEL 7000
0008	2404-01	04	1	VIDEO CONTROLLER BD ASSY, MODEL 7000
0013	281500		0	4-40 HEXNUT MACHINE SCREW-STEEL CADMIUM
0014	281501		0	6-32 HEXNUT MACHINE SCREW-STEEL CADMIUM
0015	281507		0	8-32 HEXNUT, 1/8 THICK STEEL CAD PLATE
0016	284200		0	#4-40 X 1/4 SLOTTED BINDING HEAD
0018	285000		0	#4 WASHER, INTERN TOOTH LOCK WASHER
0019	285001		0	#6 INTERNAL TOOTH LOCK WASHER, STEEL CAD
0020	285002		0	#8 INTERNAL TOOTH LOCK WASHER, STEEL CAD
0021	286200		0	6-32 X 1/2 SLOTTED BIND HEAD STEEL CAD
0022	286206		0	6-32 X 1/4 S.B.H. CAD PLATED
0023	286214		0	SCREW #6-32*3/8 LG. OVAL PHILLIPS HD. NICLE
0024	286215		0	SCREW, 6-32 X 3/8 S.B.H.
0025	288200		0	8-32 X 3/8 SLOTTED BIND HEAD STEEL CAD PLATE
0026	400011		1	BATTERY, 12VOLT, 4 AMP HOUR
0027	4338-10	02	1	HANDLE BRACKET, FRONT
0028	4339-10	03	1	HANDLE BRACKET, REAR
0029	5041-13	02	1	BOTTOM COVER PAINTED, MODEL 7000
0030	5055-01	04	1	REAR PANEL ASSY, MODEL 7000
0031	5058-10	02	1	BATTERY BRACKET, MODEL 7000
0032	5088-01	06	1	BEZEL ASSY, MODEL 7000
0033	4986-10	00	1	BRACKET, SPEAKER HOLD DOWN, MODEL 7000
0034	4990-01	01	1	CARD GUIDE BRACKET ASSY, 3 BOARDS, MODEL 7000
0035	5042-01	00	2	CARD GUIDE BRACKET ASSEMBLY, 1 BOARD
0036	5003-01	01	1	CARD GUIDE BRACKET ASSY, 6 BOARDS, MODEL 7000

0037	5006-01	03	1	POWER HARNESS ASSY, MODEL 7000
0038	5014-01	01	1	HANDLE ASSY, MODEL 7000
0039	5031-07	49	1	PROGRAM SET, VIDEO CONTROLLER, MODEL 7000
0040	5068-07	55	1	PROGRAM SET, CPU MEMORY, MODEL 7000
0041	570007		1	CRT, 7 IN. DISPLAY, 12VDC
0043	216008		0	#8 LOCKING TOOTH GROUND LUG SOLDER TYPE
0044	608001		0	CABLE TIE, .094 X 3.62L, SELF-LKG
0045	608002		1	TY-MOUNT. ADHESIVE, 3/4" X 3/4"
0046	285005		0	#8 FLT WASH, ST CAD
0047	9574-01	02	1	FRONT END DIGITAL BD ASSY, MODEL 7000
0048	608098		0	CABLE TIE BASE, ADHESIVE
0049	608097		0	CABLE TIE, BEADED, RELEASABLE, NAT COLOR, 4"
0050	5124-07	56	1	PROGRAM, 02 SATURATION, MODEL 7000
0051	5177-01	02	1	CO2 FRONT END BOARD ASSEMBLY, MODEL 7000
0052	5291-32	00	1	LABEL, SAO2 PATENT, MODEL 7000
0053	5007-04	XX	0	TEST PROCEDURE, PREBURN, MODEL 7000

8.3 ASSY: 4977-13 02 TOP COVER SCREENED, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	4920-02	00	0	ARTWORK, TOP COVER SCREENING
0002	4977-10	00	1	TOP COVER FAB, MODEL 7000

8.4 ASSY: 2400-01 06 MOTHER BOARD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2400-02	03	1	FAB, MOTHER BOARD, MODEL 7000
0002	2400-03	06	0	SCHEMATIC, MOTHER BOARD, MODEL 7000
0003	153022		1	CAPACITOR, 1UF, 50V, .20 SP, MULTILYR CERAMIC
0004	154021		2	CAPACITOR 10000UF 35V -10% + 30%
0005	210066		1	CONNECTOR, 72 PIN, HEADER, STRAIGHT
0006	210070		2	CONNECTOR, 96 PIN, RECEPTACLE, PC MOUNT
0007	210072		7	CONNECTOR, 64 PIN, RECEPTACLE, PC MOUNT
0008	211214		1	CONN, 2 PIN, HEADER, FRICTION LOCK
0009	211309		1	CONNECTOR, 3 PIN, PLUG, PC MNT, .062 BD
0010	211625		1	CONNECTOR, 6 PIN, POST HEADER, PC MOUNT
0011	212114		1	CONNECTOR, 10 PIN, CARD EDGE RECEPTACLE
0012	216029		0	TEST TERMINAL
0013	472004		1	RESISTOR, 221 OHM, 1/4W, 1%, CARBON
0014	472015		1	RESISTOR, 2K OHM, 1/4W, 1%, CARBON
0015	475005		1	POT, CERMET 1K OHM, (TOP)
0016	481520		1	DIODE, 1N5820, SCHOTTKY
0017	481532		1	DIODE, KBU6, SINGLE PHASE BRIDGE RECTIFIER
0018	281502		0	3-48 HEXNUT MACHINE SCREW-STEEL CADMIUM
0019	281302		0	SCREW, 3-48 X 5/16L, SLTD PAN HD
0020	285006		0	LOCK WASHER, STEEL CAD., #3 WASHER
0021	212205		1	CONNECTOR, 14 PIN, RIGHT ANGLE POST
0022	210091		1	CONNECTOR, 38 PIN, RIGHT ANGLE POST
0023	152065		1	CAPACITOR, 10UF, 25V, TANTALUM
0026	152004		1	CAPACITOR 100UF 25V 10% ELECT. TYPE TE1211
0027	515026		1	FUSE FAST-BLO, 3 AMP, 3AG,250V
0028	515507		2	FUSE CLIP (DUAL)
0029	5232-01	00	2	GROUND WIRE ASSY, MODEL 7000 MOTHER BD
0030	284201		0	#4-40 X 5/16 SLOTTED BINDING HEAD STEEL CAD.
0031	281500		0	4-40 HEXNUT MACHINE SCREW-STEEL CADMIUM
0032	285009		0	#4 WASHER FLAT STL CAD

8.5 ASSY: 2402-01 04 CPU MEMORY BOARD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2402-02	03	1	FAB, CPU MEMORY BOARD, MODEL 7000
0002	2402-03	04	0	SCHEMATIC, CPU MEMORY BOARD, MODEL 7000
0003	150002		1	CAPACITOR 100PF 5% 500V DIPPED MICA
0004	153003		1	CAPACITOR, .01UF,50V, 0.1 PITCH, X7R
0005	154016		16	CAPACITOR, .1UF, 50V, .100 SP
0006	210073		2	CONNECTOR, 64 PIN, PLUG, RIGHT ANGLE, PC MTG
0007	215050		4	SOCKET, 28 PIN, STACKED DIP
0012	470036		1	RESISTOR, 1K OHM, 1/4W, 10%, CARBON
0013	472026		3	RESISTOR, 6.81K OHM, 1/4W, 1%, CARBON
0014	472030		4	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0015	472041		6	RESISTOR, 20K OHM, 1/4W, 1%, CARBON
0016	472053		1	RESISTOR, 64.9K OHM, 1/4W, 1%, CARBON
0017	472060		1	RESISTOR, 121K OHM, 1/4W, 1%, CARBON
0018	472144		3	RESISTOR, 56.2K OHM, 1/4W, 1%
0019	472145		3	RESISTOR, 27.4K OHM, 1/4W, 1%
0020	472205		1	RESISTOR, 1.21K OHM, 1/4W, 1%
0021	475012		3	POT, CERMET 20K OHM, (SIDE)
0022	486224		1	IC,DG212CJ QUAD SPST CMOS ANALOG SW
0023	486236		1	IC, 74HCT173, QUAD D-TYPE FLIP-FLOP
0024	486246		1	IC, MP7574 8-BIT ANALOG/DIGITAL CONVERTER
0025	486712		1	TLO74CN QUAD F FET LOW OFF SET OP AMP
0026	486747		1	IC, AD584JH, PROGRAMMABLE PRECISION VOLTAGE R
0027	472075		2	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0029	215018		4	IC SOCKET 28 PIN
0030	486247		8	IC, CDM62256E12, 8 BIT HIGH SPEED STATIC RAM
0031	2402-04	XX	0	TEST PROCEDURE, CPU MEMORY BOARD, MODEL 7000

8.6 ASSY: 2403-01 04 MAIN CPU BOARD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2403-02	03	1	FAB, MAIN CPU BOARD, MODEL 7000
0002	2403-03	04	0	SCHEMATIC, MAIN CPU BOARD, MODEL 7000
0003	152033		3	CAP. DIPPED TANT. 10UF 25V RADIAL LEADS
0006	152039		1	CAPACITOR, 100UF, 10V, TANT.
0007	154016		29	CAPACITOR, .1UF, 50V, .100 SP
0008	150002		2	CAPACITOR 100PF 5% 500V DIPPED MICA
0009	210073		2	CONNECTOR, 64 PIN, PLUG, RIGHT ANGLE, PC MTG
0010	215048		1	CARRIER SOCKET, LEADLESS CHIP, 68 PINS
0011	215049		2	CARRIER SOCKET, LEADLESS CHIP, 44 PINS
0012	215054		1	SOCKET, 52 PIN, PICC, HIGH PRESSURE TIN
0013	230010		1	CRYSTAL, 3.6864MHZ, HC-18/U STYLE HOLDER
0017	470060		2	RESISTOR, 100K OHM, 1/4W, 10%, CARBON
0018	472000		2	RESISTOR, 10 OHM, 1/4W, 1%, CARBON
0019	472008		5	RESISTOR, 499 OHM, 1/4W, 1%, CARBON
0020	472017		6	RESISTOR, 3.32K OHM, 1/4W, 1%, CARBON
0021	472030		2	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0022	472023		1	RESISTOR, 5.11K OHM, 1/4W, 1%, CARBON
0023	472072		1	RESISTOR, 475K OHM, 1/4W, 1%, CARBON
0024	474017		3	RESISTOR PACK, 10K OHM
0025	481501		3	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0026	483002		1	2N3906 PNP SILICON SWITCHING & AMPLIFIER
0027	484010		1	NPN TRANSISTOR 2N3904

0028	484055		1	TRANSISTOR ARRAY, CA3046E, NPN, DIP
0029	486210		2	IC, MAX233, RS-232 DRIVER/RECEIVER
0030	486211		1	IC, AD7226KN, QUAD 8 BIT D/A CONVERTER
0031	486214		1	IC, MX055GA-2C-16, 16 MHZ HYBRID CLOCK
0032	486215		1	IC, MK68230Q-8, PARALLEL INTERFACE TIMER
0033	486216		2	IC, R68C552J3, DUAL ASYNCHRONOUS COMM
0034	486218		1	IC, MK48T02B-15, 2KX8 ZEROPOWER/TIMEKEEPER
0035	486220		1	IC, HD68HC000CP-8, MICROPROCESSOR
0036	486221		1	IC,74F139 DUAL 1-OF-4 DECODER/DEMULTIPLEXER
0037	486222		1	IC,74F138 1-OF-8 DECODER/DEMULTIPLEXER
0038	486223		4	IC,74F32 QUAD TWO-INPUT OR GATE
0039	486225		1	IC,74F244 OCTAL BUFFER
0040	486227		2	IC,74F08 QUAD TWO-INPUT AND GATE
0041	486229		1	IC,74F04 HEX INVERTER
0042	486230		1	IC,74F74 DUAL D-TYPE FLIP-FLOP
0043	486231		1	IC,74F00 QUAD TWO-INPUT NAND GATE
0044	486232		2	IC,74F161A 4-BIT BINARY COUNTER
0045	486233		1	IC,74HCT221 MONOSTABLE MULTIVIBRATOR
0046	486234		1	IC,74F10 TRIPLE THREE-INPUT NAND GATES
0047	486235		1	IC,74F374 OCTAL D FLIP-FLOP
0048	486271		1	IC, 74F173, QUAD D-TYPE FLIP FLOP, 3 STATE
0049	486254		1	IC, 74F148, 8 TO 3, PRIORITY ENCODER
0050	486255		1	IC, SN76496N, TONE GENERATOR
0051	486469		1	I.C.,.74LS154 4 TO 6 DECOD/DEMUX
0053	514011		1	SWITCH, BD04, 4 POSITION, DIP
0055	486750		1	IC, DUAL OP AMP, CMOS, TLC272CP
0056	150009		1	CAPACITOR 68PF 5% 500V DIPPED MICA
0057	472065		1	RESISTOR, 200K OHM, 1/4W, 1%, CARBON
0058	470045		4	RESISTOR, 5.6K OHM, 1/4W, 10%, CARBON
0060	472001		1	RESISTOR, 49.9 OHM, 1/4W, 1%, CARBON
0061	472058		1	RESISTOR, 100K OHM, 1/4W, 1%, CARBON
0062	472043		1	RESISTOR, 24.9K OHM, 1/4W, 1%, CARBON
0063	2403-04	XX	0	TEST PROCEDURE, MAIN CPU BOARD, MODEL 7000

8.7 ASSY: 2404-01 04 VIDEO CONTROLLER BD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2404-02	00	1	FAB, VIDEO CONTROLLER BD, MODEL 7000
0002	2404-03	04	0	SCHEMATIC, VIDEO CONTROLLER BD, MODEL 7000
0003	154016		34	CAPACITOR, .1UF, 50V, .100 SP
0004	210073		2	CONNECTOR, 64 PIN, PLUG, RIGHT ANGLE, PC MTG
0005	215018		2	IC SOCKET 28 PIN
0006	215048		1	CARRIER SOCKET, LEADLESS CHIP, 68 PINS
0007	215050		2	SOCKET, 28 PIN, STACKED DIP
0009	472030		1	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0014	486212		1	IC, HD63484-CP8, ADVANCED CRT CONTROLLER
0015	486213		1	IC, MX055GA-2C-20, 20 MHZ HYBRID CLOCK
0016	486222		1	IC,74F138 1-OF-8 DECODER/DEMULTIPLEXER
0017	486223		2	IC,74F32 QUAD TWO-INPUT OR GATE
0018	486227		2	IC,74F08 QUAD TWO-INPUT AND GATE
0019	486229		3	IC,74F04 HEX INVERTER
0020	486230		1	IC,74F74 DUAL D-TYPE FLIP-FLOP
0021	486231		2	IC,74F00 QUAD TWO-INPUT NAND GATE
0022	486234		2	IC,74F10 TRIPLE THREE-INPUT NAND GATES
0023	486235		2	IC,74F374 OCTAL D FLIP-FLOP

0024	486237		2	IC,74F373 OCTAL TRANPARENT LATCH
0025	486238		1	IC, 74F163A 4-BIT BINARY COUNTER
0026	486239		1	IC, 74F11 TRIPLE THREE- INPUT AND GATES
0027	486240		1	IC, 74F27 TRIPLE THREE-INPUT NOR GATE
0028	486241		4	IC,74F166 8-BIT SER/PRL-IN, SER OUT SHIFT REG
0029	486242		2	IC,74F164 8-BIT SERIAL-IN PARALLEL-OUT SHIFT
0030	486243		2	IC,74F151 8-INPUT MULTIPLEXER
0031	486244		1	IC,74F273 OCTAL D FLIP FLOP
0032	486247		6	IC, CDM62256E12, 8 BIT HIGH SPEED STATIC RAM
0033	2404-04	XX	0	TEST PROCEDURE, VIDEO CONTROLLER BOARD

8.8 ASSY: 2405-01 05 RAM SIMM BOARD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2405-02	03	1	FAB, RAM SIMM BOARD, MODEL 7000
0002	2405-03	05	0	SCHEMATIC, RAM SIMM BOARD, MODEL 7000
0003	153048		1	CAPACITOR, .1UF, 50V, 20%, SURFACE MOUNT
0004	486209		4	IC, SRM20256LM/12, CMOS 256K STATIC RAM
0004	486217		0	IC, HM62256LFP-15T, 8 BIT HIGH SP STATIC CMOS

8.9 ASSY: 2407-01 03 FRONT END BD ASSEMBLY (CTC), MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2407-02	03	1	FAB, FRONT END BOARD (CTC), MODEL 7000
0002	2407-03	03	0	SCHEMATIC, FRONT END BD (CTC), MODEL 7000
0003	5012-07	23	1	PROGRAM, EPROM ASSY, (CTC), MODEL 7000
0004	152033		3	CAP. DIPPED TANT. 10UF 25V RADIAL LEADS
0005	152059		3	CAPACITOR, 22UF, 25V, TANTALUM
0006	153022		1	CAPACITOR, 1UF, 50V, .200 SP
0007	153040		2	CAPACITOR, 15PF, 100V, .100 SP
0008	154016		17	CAPACITOR, .1UF, 50V, .100 SP
0009	154043		1	CAPACITOR, 2200PF, 33V, 2%, POLYPROPELENE
0010	154045		1	CAPACITOR, 560PF, 33V, 2%, POLYPROPELENE
0011	154046		1	CAPACITOR, 3900PF, 33V, 2%, POLYPROPELENE
0012	210071		1	CONNECTOR, 96 PIN, PLUG, RIGHT ANGLE
0013	212656		1	CONNECTOR, 25 PIN, .025 SQUARE TERMINAL STRIP
0014	215002		2	IC SOCKET 24 PIN
0015	215004		1	IC SOCKET 40 PIN
0016	215018		2	IC SOCKET 28 PIN
0017	215031		2	IC SOCKET, 20 PIN
0018	216029		0	TEST TERMINAL
0019	230012		1	CRYSTAL, VF246, 2.4576MHZ, .2 SPACING
0020	281502		0	3-48 HEXNUT MACHINE SCREW-STEEL CADMIUM
0021	281303		0	SCREW, 3-48 X 7/16L, SLTD PAN HD
0022	285006		0	LOCK WASHER, STEEL CAD., #3 WASHER
0023	470024		1	RESISTOR, 100 OHM, 1/4W, 10%, CARBON
0024	470038		1	RESISTOR, 1.5K OHM, 1/4W, 10%, CARBON
0025	470052		4	RESISTOR, 22K OHM, 1/4W, 10%, CARBON
0026	472011		1	RESISTOR, 1K OHM, 1/4W, 1%, CARBON
0027	472017		2	RESISTOR, 3.32K OHM, 1/4W, 1%, CARBON
0028	472018		2	RESISTOR, 4.02K, OHM, 1/4W, 1%, CARBON
0029	472025		2	RESISTOR, 6.04K OHM, 1/4W, 1%, CARBON
0030	472028		2	RESISTOR, 8.06K OHM, 1/4W, 1%, CARBON
0031	472030		4	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0032	472031		2	RESISTOR, 10.7K OHM, 1/4W, 1%, CARBON
0033	472033		2	RESISTOR, 11.5K OHM, 1/4W, 1%, CARBON

0034	472034		2	RESISTOR, 12.1K OHM, 1/4W, 1%, CARBON
0035	472058		1	RESISTOR, 100K OHM, 1/4W, 1%, CARBON
0036	472144		1	RESISTOR, 56.2K OHM, 1/4W, 1%
0037	472228		2	RESISTOR, 1.96K OHM, 1/4W, 1%, CARBON
0038	472237		2	RESISTOR, 2.61K OHM, 1/4W, 1%, CARBON
0039	472238		2	RESISTOR, 4.64K OHM, 1/4W, 1%, CARBON
0040	472239		2	RESISTOR, 5.36K OHM, 1/4W, 1%, CARBON
0041	472240		2	RESISTOR, 6.65K OHM, 1/4W, 1%, CARBON
0042	472241		2	RESISTOR, 7.32K OHM, 1/4W, 1%, CARBON
0043	472242		2	RESISTOR, 8.87K OHM, 1/4W, 1%, CARBON
0044	472243		2	RESISTOR, 9.31K OHM, 1/4W, 1%, CARBON
0045	481501		2	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0046	481511		1	DIODE, 1N270, GERMANIUM
0047	481522		1	DIODE, 1N4001, RECTIFIER, SILICON
0048	482557		1	LED, MV54B, RED
0049	484502		1	LM320LZ-5 NEG VOLTAGE REGULATOR 5V PLASTIC
0050	485518		1	TRANSISTOR, IRF523, N-CHANNEL, F.E.T
0051	486253		1	IC, HD637B01VOP, MICROCOMPUTER
0052	486257		2	IC, 74HC273N, OCTAL D TYPE FLIP FLOP
0053	486258		2	IC, CD4067, CMOS ANALOG MULTIPLEXER/DEMULT
0054	486261		1	IC, MC14053, ANALOG MULTIPLEXER/DEMULTIPLEXER
0055	486263		1	IC, AD7582KN, SUCCESSIVE APPROXIMATION ADC
0056	486625		1	MC74HC32N I.C. QUAD 2 INPUT OR GATE
0057	486651		1	MM74HC138 I.C. 3 TO 8 LINE DECODER
0058	486656		1	MM74HCOON I.C. QUAD 2 INPUT POSITIVE NAND
0059	486744		1	I.C., TLO72 DUAL OP AMP JFET INPUT
0060	486759		1	IC, REF02, +5V PRCN VOLTAGE REF/TEMP TRANS
0061	606401		0	#24 BUSS WIRE
0062	2407-04	XX	0	TEST PROCEDURE, FRONT END BOARD (CTC)

8.10 ASSY: 2409-01 02 PIGGYBACK BD ASSY (CTC), 1260

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2409-02	00	1	FAB, PIGGYBACK BOARD (CTC), MODEL 7000
0002	2409-03	02	0	SCHEMATIC, PIGGYBACK BD (CTC), 1260
0003	151014		3	CAPACITOR .001UF 1% 50V MYLAR
0004	152018		3	CAPACITOR 6.8UF 35V 10% TANTALYTIC RADIAL
0005	152060		2	CAPACITOR, 22UF, 100V, 10%, ELECTROLYTIC
0006	153018		2	CAPACITOR,470PF,100V.,10%
0007	153022		7	CAPACITOR, 1UF, 50V, .200 SP
0008	153026		2	CAPACITOR, 100PF, 50V, .100 SP
0009	153045		2	CAPACITOR, .47UF, 50V, .200 SP
0010	154016		23	CAPACITOR, .1UF, 50V, .100 SP
0011	154017		1	CAPACITOR, .47UF, 10%, MULTILAYER
0012	154046		2	CAPACITOR, 3900PF, 33V, 2%, POLYPROPELENE
0013	154048		1	CAPACITOR, .1UF, 100V, METALIZED POLYESTER
0014	212655		1	CONNECTOR, 25 PIN, BOTTOM ENTRY
0015	216029		0	TEST TERMINAL
0016	280143		1	HEAT SINK, HORIZ MTG, ALUMINUM ALLOY
0017	281500		0	4-40 HEXNUT MACHINE SCREW-STEEL CADMIUM
0018	284200		0	#4-40 X 1/4 SLOTTED BINDING HEAD STEEL CAD.
0019	285000		0	#4 WASHER, INTERN TOOTH LOCK WASHER
0020	320004		0	HEATSINK COMPOUND
0021	472269		1	RESISTOR, 2 OHM, 1/4W, 1%, METAL FILM
0022	470024		3	RESISTOR, 100 OHM, 1/4W, 10%, CARBON

0023	470036		16	RESISTOR, 1K OHM, 1/4W, 10%, CARBON
0024	470052		1	RESISTOR, 22K OHM, 1/4W, 10%, CARBON
0025	472008		2	RESISTOR, 499 OHM, 1/4W, 1%, CARBON
0026	472011		1	RESISTOR, 1K OHM, 1/4W, 1%, CARBON
0027	472013		1	RESISTOR, 1.5K OHM, 1/4W, 1%, CARBON
0028	472015		2	RESISTOR, 2K OHM, 1/4W, 1%, CARBON
0029	472022		2	RESISTOR, 4.99K OHM, 1/4W, 1%, CARBON
0030	472023		4	RESISTOR, 5.11K OHM, 1/4W, 1%, CARBON
0031	472030		16	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0032	472041		5	RESISTOR, 20K OHM, 1/4W, 1%, CARBON
0033	472042		1	RESISTOR, 21.5K OHM, 1/4W, 1%, CARBON
0034	472046		1	RESISTOR, 33.2K OHM, 1/4W, 1%, CARBON
0035	472055		2	RESISTOR, 80.6K OHM, 1/4W, 1%, CARBON
0036	472058		2	RESISTOR, 100K OHM, 1/4W, 1%, CARBON
0037	472065		3	RESISTOR, 200K OHM, 1/4W, 1%, CARBON
0038	472075		4	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0039	472081		1	RESISTOR, 3.01K OHM, 1/4W, 1%, CARBON
0040	472119		2	RESISTOR, 178K OHM, 1/4W, 1%, CARBON
0041	472130		1	RESISTOR, 324K OHM, 1/4W, 1%, CARBON
0042	472131		1	RESISTOR, 3.48K OHM, 1/4W, 1%, CARBON
0043	472137		2	RESISTOR, 562K OHM, 1/4W, 1%
0044	472158		1	RESISTOR, 3.3M OHM, 1/4W, 1%
0045	472166		1	RESISTOR, 39.2K OHM, 1/4W, 1%
0046	472185		2	RESISTOR, 61.9K OHM, 1/4W, 1%
0047	472192		1	RESISTOR, 16.9K OHM, 1/4W, 1%
0048	472224		2	RESISTOR, 28.7K OHM, 1/4W, 1%, METAL FILM
0049	473512		2	RESISTOR, 10K OHM, 1/4W, .1%
0050	473551		2	RESISTOR, 20K OHM, 1/4W, .1%
0052	481024		1	DIODE, 1N4746A, 18V, ZENER
0053	481501		3	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0054	481511		2	DIODE, 1N270, GERMANIUM
0055	481528		3	DIODE, 1N4938, RECTIFIER, 200V, 50A
0056	483015		4	TRANSISTOR, 2N5401, SILICON, PNP
0057	484056		3	TRANSISTOR, 2N5551, SILICON, NPN
0058	485500		3	2N4393 N-CHANNEL JUNCTION F.E.T.
0059	485517		4	TRANSISTOR, VN10KM, N-CHANNEL, F.E.T
0060	485518		1	TRANSISTOR, IRF523, N-CHANNEL, F.E.T
0061	485519		1	TRANSISTOR, J270, P-CHANNEL, F.E.T
0062	485522		1	TRANSISTOR, VP0808M, P-CHANNEL
0063	486259		1	IC, CD4018, CMOS PRESETTABLE DIVIDE BY N
0064	486260		1	IC, CD4017, CMOS DECADE COUNTER/DIVIDER
0065	486651		1	MM74HC138 I.C. 3 TO 8 LINE DECODER
0066	486716		2	LM393N DUAL COMPARATOR
0067	486744		6	I.C., TL072 DUAL OP AMP JFET INPUT
0068	486758		2	IC, LF398, MONOLITHIC SAMPLE & HOLD CIRCUIT
0069	486760		1	IC, UA759UIC, POWER OPERATIONAL AMPLIFIER
0070	487050		1	IC, 74HCU04, HEX UNBUFFERED INVERTER
0071	4994-10	00	1	TRANSFORMER, PC MOUNT, MODEL 7000
0072	2409-04	XX	0	TEST PROCEDURE, PIGGYBACK BOARD (CTC)

8.11 ASSY: 2418-01 04 PIGGYBACK BOARD ASSEMBLY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2418-02	02	1	ARTWORK, PIGGYBACK BOARD (CTC), MODEL 7000
0002	2418-03	04	0	SCHEMATIC, PIGGYBACK BD, MODEL 7000

0003	151014	3	CAPACITOR .001UF 1% 50V MYLAR
0004	152018	3	CAPACITOR 6.8UF 35V 10% TANTALYTIC RADIAL
0005	152060	2	CAPACITOR, 22UF, 100V, 10%, ELECTROLYTIC
0006	153018	2	CAPACITOR,470PF,100V.,10%
0007	153022	7	CAPACITOR, 1UF, 50V, .200 SP
0008	153026	2	CAPACITOR, 100PF, 50V, .100 SP
0009	153045	2	CAPACITOR, .47UF, 50V, .200 SP
0010	154016	24	CAPACITOR, .1UF, 50V, .100 SP
0011	154017	1	CAPACITOR, .47UF, 10%, MULTILAYER
0012	154046	2	CAPACITOR, 3900PF, 33V, 2%, POLYPROPELENE
0013	154048	1	CAPACITOR, .1UF, 100V, METALIZED POLYESTER
0014	212655	1	CONNECTOR, 25 PIN, BOTTOM ENTRY
0015	216029	0	TEST TERMINAL
0016	280143	1	HEAT SINK, HORIZ MTG, ALUMINUM ALLOY
0017	281500	0	4-40 HEXNUT MACHINE SCREW-STEEL CADMIUM
0018	284200	0	#4-40 X 1/4 SLOTTED BINDING HEAD
0019	285000	0	#4 WASHER, INTERN TOOTH LOCK WASHER
0020	320004	0	HEATSINK COMPOUND
0021	472269	1	RESISTOR, 2 OHM, 1/4W, 1%, METAL FILM
0022	472003	3	RESISTOR, 100 OHM, 1/4W, 1%, CARBON
0023	472043	1	RESISTOR, 24.9K OHM, 1/4W, 1%, CARBON
0024	472170	1	RESISTOR, 22.1K OHM, 1/4W, 1%
0025	472008	2	RESISTOR, 499 OHM, 1/4W, 1%, CARBON
0026	472011	7	RESISTOR, 1K OHM, 1/4W, 1%, CARBON
0027	472013	1	RESISTOR, 1.5K OHM, 1/4W, 1%, CARBON
0028	472015	2	RESISTOR, 2K OHM, 1/4W, 1%, CARBON
0029	472022	2	RESISTOR, 4.99K OHM, 1/4W, 1%, CARBON
0030	472023	4	RESISTOR, 5.11K OHM, 1/4W, 1%, CARBON
0031	472030	17	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0032	472041	5	RESISTOR, 20K OHM, 1/4W, 1%, CARBON
0033	472042	1	RESISTOR, 21.5K OHM, 1/4W, 1%, CARBON
0034	472046	1	RESISTOR, 33.2K OHM, 1/4W, 1%, CARBON
0035	472055	2	RESISTOR, 80.6K OHM, 1/4W, 1%, CARBON
0036	472058	2	RESISTOR, 100K OHM, 1/4W, 1%, CARBON
0037	472065	3	RESISTOR, 200K OHM, 1/4W, 1%, CARBON
0038	472075	4	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0039	472081	1	RESISTOR, 3.01K OHM, 1/4W, 1%, CARBON
0040	472119	2	RESISTOR, 178K OHM, 1/4W, 1%, CARBON
0041	472130	1	RESISTOR, 324K OHM, 1/4W, 1%, CARBON
0042	472131	1	RESISTOR, 3.48K OHM, 1/4W, 1%, CARBON
0043	472137	3	RESISTOR, 562K OHM, 1/4W, 1%
0044	472158	1	RESISTOR, 3.3M OHM, 1/4W, 1%
0045	472166	1	RESISTOR, 39.2K OHM, 1/4W, 1%
0046	472185	2	RESISTOR, 61.9K OHM, 1/4W, 1%
0047	472192	1	RESISTOR, 16.9K OHM, 1/4W, 1%
0048	472224	2	RESISTOR, 28.7K OHM, 1/4W, 1%, METAL FILM
0049	473512	2	RESISTOR, 10K OHM, 1/4W, .1%
0050	473551	2	RESISTOR, 20K OHM, 1/4W, .1%
0052	481024	1	DIODE, 1N4746A, 18V, ZENER
0053	481501	4	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0054	481511	2	DIODE, 1N270, GERMANIUM
0055	481528	3	DIODE, 1N4938, RECTIFIER, 200V, 50A
0056	483015	4	TRANSISTOR, 2N5401, SILICON, PNP
0057	484056	3	TRANSISTOR, 2N5551, SILICON, NPN

0058	485500		3	2N4393 N-CHANNEL JUNCTION F.E.T.
0059	485517		4	TRANSISTOR, VN10KM, N-CHANNEL, F.E.T
0060	485518		1	TRANSISTOR, IRF523, N-CHANNEL, F.E.T
0061	485519		1	TRANSISTOR, J270, P-CHANNEL, F.E.T
0062	485522		1	TRANSISTOR, VP0808M, P-CHANNEL
0063	486259		1	IC, CD4018, CMOS PRESETTABLE DIVIDE BY N
0064	486260		1	IC, CD4017, CMOS DECADE COUNTER/DIVIDER
0065	486651		1	MM74HC138 I.C. 3 TO 8 LINE DECODER
0066	486716		2	LM393N DUAL COMPARATOR
0067	486744		6	I.C., TLO72 DUAL OP AMP JFET INPUT
0068	486758		2	IC, LF398, MONOLITHIC SAMPLE & HOLD CIRCUIT
0069	486760		1	IC, UA759UIC, POWER OPERATIONAL AMPLIFIER
0070	486675		1	MM74HC14N, IC,CMOS
0071	4994-10	00	1	TRANSFORMER, PC MOUNT, MODEL 7000
0072	486767		1	IC, MAX8211, PROGRAMMMABLE VOLTAGE DETECTOR
0073	606401		0	#24 BUSS WIRE
0074	152033		1	CAP. DIPPED TANT. 10UF 25V RADIAL LEADS
0075	2418-04	XX	0	TEST PROCEDURE, PIGGYBACK BOARD, MODEL 7000

8.12 ASSY: 2421-01 01 FRONT END BOARD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2421-02	00	1	FAB, FRONT END BOARD, MODEL 7000
0002	2421-03	00	0	SCHEMATIC, FRONT END BOARD, MODEL 7000
0003	5012-07	23	1	PROGRAM, EPROM ASSY, (CTC), MODEL 7000
0004	152033		3	CAP. DIPPED TANT. 10UF 25V RADIAL LEADS
0005	152059		3	CAPACITOR, 22UF, 25V, TANTALUM
0006	153022		1	CAPACITOR, 1UF, 50V, .200 SP
0007	153040		2	CAPACITOR, 15PF, 100V, .100 SP
0008	154016		17	CAPACITOR, .1UF, 50V, .100 SP
0009	154043		1	CAPACITOR, 2200PF, 33V, 2%
0010	154045		1	CAPACITOR, 560PF, 33V, 2%
0011	154046		1	CAPACITOR, 3900PF, 33V, 2%
0012	210071		1	CONNECTOR, 96 PIN, PLUG, RIGHT ANGLE
0013	212656		1	CONNECTOR, 25 PIN, .025 SQUARE TERMINAL STRIP
0015	215004		1	IC SOCKET 40 PIN
0016	215018		1	IC SOCKET 28 PIN
0018	216029		0	TEST TERMINAL
0019	230012		1	CRYSTAL, VF246, 2.4576MHZ, .2 SPACING
0023	470024		1	RESISTOR, 100 OHM, 1/4W, 10%, CARBON
0024	470038		1	RESISTOR, 1.5K OHM, 1/4W, 10%, CARBON
0025	470052		4	RESISTOR, 22K OHM, 1/4W, 10%, CARBON
0026	472011		1	RESISTOR, 1K OHM, 1/4W, 1%, CARBON
0027	472017		2	RESISTOR, 3.32K OHM, 1/4W, 1%, CARBON
0028	472018		2	RESISTOR, 4.02K, OHM, 1/4W, 1%, CARBON
0029	472025		2	RESISTOR, 6.04K OHM, 1/4W, 1%, CARBON
0030	472028		2	RESISTOR, 8.06K OHM, 1/4W, 1%, CARBON
0031	472030		5	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0032	472031		2	RESISTOR, 10.7K OHM, 1/4W, 1%, CARBON
0033	472033		2	RESISTOR, 11.5K OHM, 1/4W, 1%, CARBON
0034	472034		2	RESISTOR, 12.1K OHM, 1/4W, 1%, CARBON
0035	472058		1	RESISTOR, 100K OHM, 1/4W, 1%, CARBON
0036	472144		1	RESISTOR, 56.2K OHM, 1/4W, 1%
0037	472228		2	RESISTOR, 1.96K OHM, 1/4W, 1%, CARBON
0038	472237		2	RESISTOR, 2.61K OHM, 1/4W, 1%, CARBON

0039	472238		2	RESISTOR, 4.64K OHM, 1/4W, 1%, CARBON
0040	472239		2	RESISTOR, 5.36K OHM, 1/4W, 1%, CARBON
0041	472240		2	RESISTOR, 6.65K OHM, 1/4W, 1%, CARBON
0042	472241		2	RESISTOR, 7.32K OHM, 1/4W, 1%, CARBON
0043	472242		2	RESISTOR, 8.87K OHM, 1/4W, 1%, CARBON
0044	472243		2	RESISTOR, 9.31K OHM, 1/4W, 1%, CARBON
0045	481501		2	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0046	481511		1	DIODE, 1N270, GERMANIUM
0047	481522		1	DIODE, 1N4001, RECTIFIER, SILICON
0048	482557		1	LED, MV54B, RED
0049	484502		1	LM320LZ-5 NEG VOLTAGE REGULATOR 5V PLASTIC
0050	485518		2	TRANSISTOR, IRF523, N-CHANNEL, F.E.T
0051	486253		1	IC, HD637B01VOP, MICROCOMPUTER
0052	486257		2	IC, 74HC273N, OCTAL D TYPE FLIP FLOP
0053	486258		2	IC, CD4067, CMOS ANALOG MULTIPLEXER/DEMULT
0054	486261		1	IC, MC14053, ANALOG MULTIPLEXER/DEMULTIPLEXER
0055	486263		1	IC, AD7582KN, SUCCESSIVE APPROXIMATION ADC
0056	486625		1	MC74HC32N I.C. QUAD 2 INPUT OR GATE
0057	486651		1	MM74HC138 I.C. 3 TO 8 LINE DECODER
0058	486656		1	MM74HCOON I.C. QUAD 2 INPUT POSITIVE NAND
0059	486744		2	I.C., TLO72 DUAL OP AMP JFET INPUT
0060	486759		1	IC, REF02, +5V PRCN VOLTAGE REF/TEMP TRANS
0061	284201		0	#4-40 X 5/16 SLOTTED BINDING HEAD STEEL CAD.
0062	285000		0	#4 WASHER, INTERN TOOTH LOCK WASHER
0063	281500		0	4-40 HEXNUT MACHINE SCREW-STEEL CADMIUM
0064	472075		1	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0065	472042		1	RESISTOR, 21.5K OHM, 1/4W, 1%, CARBON
0066	472194		1	RESISTOR, 31.6K OHM, 1/4W, 1%, CARBON
0067	470056		1	RESISTOR, 47K OHM, 1/4W, 10%, CARBON
0068	484010		1	NPN TRANSISTOR 2N3904
0069	161039		0	FOAM TAPE, 1/32THK X 2 1/2WIDE X 216FT DBL SD
0070	280155		0	SPACER, .187(4.7), LOCKING, .062(1.6) BD, NYL
0071	2421-04	XX	0	TEST PROCEDURE, FRONT END BOARD, MODEL 7000

8.13 ASSY: 5006-01 03 POWER HARNESS ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	4985-10	02	1	TRANSFORMER, MODEL 7000
0002	5017-01	01	1	FAN HARNESS ASSY, MODEL 7000
0003	210049		1	PWR ENTRY MODULE, RFI FLTR, PWR SW, 4 V SEL,
0006	211626		1	CONNECTOR, 6 PIN, RECEPTACLE, 20AWG, LOCKING
0007	216003		0	#6 LOCKING TOOTH GROUND LUG SOLDER TYPE
0008	5021-01	00	1	BATTERY WIRE ASSY, POSITIVE, MODEL 7000
0009	5022-01	00	1	BATTERY WIRE ASSY, NEGATIVE, MODEL 7000
0010	5016-01	00	1	SPEAKER ASSY, MODEL 7000
0013	515009		1	2A SLO-BLO FUSE (FORMERLY 3AG-SB)
0014	605263		0	#18 HOOKUP WIRE,GREEN/YELLOW STRIPE
0015	608001		0	CABLE TIE, .094 X 3.62L, SELF-LKG
0016	608002		1	TY-MOUNT. ADHESIVE, 3/4" X 3/4"
0017	608006		0	TUBING, HEAT SHRINK, 1/2" DIA, BLACK
0018	608011		0	TUBING, HEAT SHRINK, 3/16" DIA, BLACK
0019	608014		0	TUBING, HEAT SHRINK, BLK, .750 ID, .030 WALL

8.14 ASSY: 5055-01 04 REAR PANEL ASSY, MODEL 7000

LINE PART NO REV QPA DESCRIPTION

0001	5013-01	02	1	REGULATOR HARNESS ASSY, MODEL 7000
0002	5033-13	00	1	FAN FILTER SHROUD PAINTED, MODEL 7000
0003	5038-01	01	1	GROUND WIRE ASSY, REAR PANEL, MODEL 7000
0004	5051-10	00	1	FAN FILTER, MODELS 1260, 7000
0005	5055-13	01	1	REAR PANEL SCREENED, MODEL 7000
0006	5061-01	00	1	FAN ASSEMBLY, MODEL 7000
0007	5170-10		1	RIBBON CABLE HARNESS, REAR PANEL, MODEL 7000
0008	215017		1	TO-3 INSULATING WASHER THERMALLY CONDUCTIVE
0009	216012		1	UNINSULATED BINDING POST
0010	260013		1	FAN GUARD (FOR 260012)
0011	280035		1	INSULG COVER FOR TO-3 CASE WITH NYLON SNAP
0012	280146		3	SCREWLOCK, FEMALE, 4-40 X .312L
0013	281500		0	4-40 HEXNUT MACHINE SCREW-STEEL CADMIUM
0014	285000		0	#4 WASHER, INTERN TOOTH LOCK WASHER
0015	285001		0	#6 INTERNAL TOOTH LOCK WASHER, STEEL CAD
0017	286206		0	6-32 X 1/4 S.B.H. CAD PLATED
0018	286218		0	SCREW, 6-32 X 5/8L, PAN HD, SELF TAPPING
0019	286217		0	SCREW, SLTD BINDING HD, 6-32 X 1 1/4 LG, STL
0020	320004		0	HEATSINK COMPOUND
0021	484505		1	LM317K POS VOLTAGE REGULATOR
0022	161001		0	LOCTITE (THREAD LOCKING)
0023	5219-10	00	1	CLAMP, LINECORD, MODEL 7000
0024	286002		0	SCREW, WING, 6-32 X 1/2, ZINC ALLOY

8.15 ASSY: 2267-01 03 SATURATION FRONT END BD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2267-02	01	1	FAB, FRONT END DIGITAL BOARD, MODEL 7000
0002	2267-03	03	0	SCHEMATIC, FRONT END DIGITAL BOARD, MODEL 700
0003	4378-10	04	1	TRANSFORMER,ISOLATION
0004	152004		2	CAPACITOR 100UF 25V 10% ELECT. TYPE TE1211
0005	152033		4	CAP. DIPPED TANT. 10UF 25V RADIAL LEADS
0006	152050		4	CAPACITOR 1000UF,10V.,-10,+50%
0007	152057		1	CAPACITOR, 100UF, 6.3V, TANTALUM, .2" PITCH
0008	153002		1	CAPACITOR, .001, 50V, 0.1" PITCH X7R
0009	153012		1	CAPACITOR,22PF
0010	153013		1	CAPACITOR, 33PF
0011	153041		2	CAPACITOR, 56PF, 100V, .100 SP
0012	154016		17	CAPACITOR, .1UF, 50V, .100 SP
0013	154027		1	CAPACITOR, .0015UF,160V,1%,.6 PITCH
0014	161038		0	FOAM TAPE,1/2"W X 3/4"L,DOUBLE-SIDED ADHESIVE
0015	180000		1	CHOKE 1 MILLIHENRI, .250 DIA X .500 LG, 10%
0016	180004		1	CHOKE 100UH
0017	210071		1	CONNECTOR, 96 PIN, PLUG, RIGHT ANGLE
0018	210078		1	CONNECTOR, 36 PIN, HEADER, SIL, GOLD CONTACT
0019	213405		1	CONNECTOR, 40 PIN, HEADER, DIL, GOLD CONTACT
0020	215004		1	IC SOCKET 40 PIN
0021	215006		1	IC SOCKET 16 PIN
0023	215018		3	IC SOCKET 28 PIN
0026	230007		1	CRYSTAL, 8MHZ
0027	230012		1	CRYSTAL, VF246, 2.4576MHZ, .2 SPACING
0028	470008		2	RESISTOR, 4.7 OHM, 1/4W, 10%, CARBON
0029	470084		1	RESISTOR, 10M OHM, 1/4W, 10%, CARBON
0030	471400		1	RESISTOR, 100M OHM, 1W, 5%, .9 PITCH
0031	472030		1	RESISTOR, 10K OHM, 1/4W, 1%, CARBON

0032	472075		3	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0033	472029		1	RESISTOR, 9.09K OHM, 1/4W, 1%, CARBON
0034	474089		1	RESISTOR PACK, 100K OHM, 2%, 8 RES, 9 PIN
0035	474090		2	RESISTOR PACK, 1K OHM, 2%, 8 RES, 9 PIN
0036	481501		3	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0037	481521		1	DIODE, DF02M, BRIDGE RECTIFIER
0038	484521		2	VOLTAGE REGULATOR, 5V, LM2931AZ-5.0
0039	485510		1	VN10LM VMOS F.E.T.
0040	485514		2	TRANSISTOR, 2N7000, FETLINGTON
0041	486269		1	IC, CD4047BCN, MONOSTABLE/ASTABLE MULTIVIBR
0042	486625		1	MC74HC32N I.C. QUAD 2 INPUT OR GATE
0043	486648		2	CD4024BE I.C. 7 STAGE RIPPLE COUNTER
0044	486651		1	MM74HC138 I.C. 3 TO 8 LINE DECODER
0045	486657		1	82C51A I.C. PROGRAMMABLE COMMUNICATION
0046	486675		1	MM74HC14N, IC,CMOS
0047	486676		1	MM74HC74N, IC, CMOS
0048	486680		1	MM74HC573N, IC, CMOS
0049	486682		1	MM74HC132N, IC, CMOS
0050	486687		1	CD4020BCN, IC, CMOS DIGITIAL
0051	486689		1	NSC800N-4, IC, CMOS MICROPROCESSOR
0052	486691		1	IC, CMOS MEMORY, HM6116LP4
0054	486698		1	IC, D3-4702-9, BAUD RATE GENERATOR
0055	487055		1	IC, HCPL 2731, OPTO ISOLATOR
0056	515055		1	FUSE, 100MA, FAST BLO, 5/8 X 3/16, SIZE 00
0057	515509		1	FUSE HOLDER, FOR SIZE 00 FUSES, PC MOUNT
0058	2267-04	XX	0	TEST PROCEDURE, FRONT END BOARD, MODEL 7000

8.16 ASSY: 2267-17 00 FNT END DIGITAL BD ASSY, *****OBSOLETE SEE R-N137*

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2267-02	01	1	FAB, FRONT END DIGITAL BOARD, MODEL 7000
0002	2267-03	03	0	SCHEMATIC, FRONT END DIGITAL BOARD
0003	4378-10	04	1	TRANSFORMER,ISOLATION
0004	152004		2	CAPACITOR 100UF 25V 10% ELECT. TYPE TE1211
0005	152033		4	CAP. DIPPED TANT. 10UF 25V RADIAL LEADS
0006	152050		4	CAPACITOR 1000UF,10V.,-10,+50%
0007	152057		1	CAPACITOR, 100UF, 6.3V, TANTALUM, .2" PITCH
0008	153002		1	CAPACITOR, .001, 50V, 0.1" PITCH X7R
0009	153012		1	CAPACITOR,22PF
0010	153013		1	CAPACITOR, 33PF
0011	153041		2	CAPACITOR, 56PF, 100V, .100 SP
0012	154016		17	CAPACITOR, .1UF, 50V, .100 SP
0013	154051		1	CAPACITOR, 100PF, 63V, 1%, POLYSTYRENE
0014	161038		0	FOAM TAPE,1/2"W X 3/4"L,DOUBLE-SIDED ADHESIVE
0015	180000		1	CHOKE 1 MILLIHENRI, .250 DIA X .500 LG, 10%
0016	180004		1	CHOKE 100UH
0017	210071		1	CONNECTOR, 96 PIN, PLUG, RIGHT ANGLE
0018	210078		1	CONNECTOR, 36 PIN, HEADER, SIL, GOLD CONTACT
0019	213405		1	CONNECTOR, 40 PIN, HEADER, DIL, GOLD CONTACT
0020	215004		1	IC SOCKET 40 PIN
0021	215006		3	IC SOCKET 16 PIN
0022	215016		7	14 PIN SOCKET
0023	215018		3	IC SOCKET 28 PIN
0024	215019		2	IC SOCKET 8 PIN

0025	215031	1	IC SOCKET, 20 PIN
0026	230007	1	CRYSTAL, 8MHZ
0027	230012	1	CRYSTAL, VF246, 2.4576MHZ, .2 SPACING
0028	470008	2	RESISTOR, 4.7 OHM, 1/4W, 10%, CARBON
0029	470084	1	RESISTOR, 10M OHM, 1/4W, 10%, CARBON
0030	471400	1	RESISTOR, 100M OHM, 1W, 5%, .9 PITCH
0031	472030	1	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0032	472075	3	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0033	472087	1	RESISTOR, 143K OHM, 1/4W, 1%, CARBON
0034	474089	1	RESISTOR PACK, 100K OHM, 2%, 8 RES, 9 PIN
0035	474090	2	RESISTOR PACK, 1K OHM, 2%, 8 RES, 9 PIN
0036	481501	3	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0037	481521	1	DIODE, DF02M, BRIDGE RECTIFIER
0038	484521	2	VOLTAGE REGULATOR, 5V, LM2931AZ-5.0
0039	485510	1	VN10LM VMOS F.E.T.
0040	485514	2	TRANSISTOR, 2N7000, FETLINGTON
0041	486269	1	IC, CD4047BCN, MONOSTABLE/ASTABLE MULTIVIBR
0042	486625	1	MC74HC32N I.C. QUAD 2 INPUT OR GATE
0043	486648	2	CD4024BE I.C. 7 STAGE RIPPLE COUNTER
0044	486651	1	MM74HC138 I.C. 3 TO 8 LINE DECODER
0045	486657	1	82C51A I.C. PROGRAMMABLE COMMUNICATION
0046	486675	1	MM74HC14N, IC,CMOS
0047	486676	1	MM74HC74N, IC, CMOS
0048	486680	1	MM74HC573N, IC, CMOS
0049	486682	1	MM74HC132N, IC, CMOS
0050	486687	1	CD4020BCN, IC, CMOS DIGITIAL
0051	486689	1	NSC800N-4, IC, CMOS MICROPROCESSOR
0052	486691	1	IC, CMOS MEMORY, HM6116LP4
0053	486670	1	IC, CMOS EPROM, 27C64
0054	486698	1	IC, D3-4702-9, BAUD RATE GENERATOR
0055	487055	2	IC, HCPL 2731, OPTO ISOLATOR
0056	515055	1	FUSE, 100MA, FAST BLO, 5/8 X 3/16, SIZE 00
0057	515509	1	FUSE HOLDER, FOR SIZE 00 FUSES, PC MOUNT

8.17 ASSY: 2268-01 03 FRONT END ANALOG BD ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2268-02	01	1	FAB, FRONT END ANALOG BOARD, MODEL 7000
0002	2268-03	03	0	SCHEMATIC, FRONT END ANALOG BOARD, MODEL 7000
0003	150004		2	CAPACITOR 680PF 5% 500V DIPPED MICA
0004	152001		1	CAPACITOR 6.8UF 25V 10% TANTALYTIC RAD. LEADS
0005	152003		2	CAPACITOR 22UF 10% 15V TANTALYTIC RADIAL
0006	153002		1	CAPACITOR, .001, 50V, 0.1" PITCH X7R
0007	153024		1	CAPACITOR,100PF,100V., CERAMIC
0008	153049		1	CAPACITOR, 560PF, 100V, .1 PITCH
0009	154016		36	CAPACITOR, .1UF, 50V, .100 SP
0010	154027		2	CAPACITOR, .0015UF,160V,1%,.6 PITCH
0011	154028		2	CAP, .22UF, 63V, +/- 5%, .200(5.1MM)SP
0012	154030		1	CAPACITOR, .068UF, 50V, .200 SP
0013	154031		1	CAPACITOR, .015UF, 50V, .200 SP
0014	154032		2	CAPACITOR,1UF,63V.,10%, POLYESTER
0015	151014		1	CAPACITOR .001UF 1% 50V MYLAR
0016	210078		1	CONNECTOR, 36 PIN, HEADER, SIL, GOLD CONTACT
0017	213404		1	CONNECTOR, 40 PIN, DUAL IN LINE
0018	215006		1	IC SOCKET 16 PIN

0019	215016	1	14 PIN SOCKET
0020	215018	1	IC SOCKET 28 PIN
0022	215031	2	IC SOCKET, 20 PIN
0023	470006	1	RESISTOR, 3.3 OHM, 1/4W, 10%, CARBON
0024	472011	2	RESISTOR, 1K OHM, 1/4W, 1%, CARBON
0026	472022	1	RESISTOR, 4.99K OHM, 1/4W, 1%, CARBON
0027	472028	1	RESISTOR, 8.06K OHM, 1/4W, 1%, CARBON
0028	472030	2	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0029	472035	1	RESISTOR, 12.7K OHM, 1/4W, 1%, CARBON
0030	472041	1	RESISTOR, 20K OHM, 1/4W, 1%, CARBON
0032	472049	1	RESISTOR, 49.9K OHM, 1/4W, 1%, CARBON
0033	472202	1	RESISTOR, 562K OHM, 1/4W, 1%
0034	472052	1	RESISTOR, 57.6K OHM, 1/4W, 1%, CARBON
0035	472058	6	RESISTOR, 100K OHM, 1/4W, 1%, CARBON
0036	472062	1	RESISTOR, 150K 0HM, 1/4W, 1%, CARBON
0037	472065	2	RESISTOR, 200K OHM, 1/4W, 1%, CARBON
0038	472070	1	RESISTOR, 402K OHM, 1/4W, 1%, CARBON
0039	472075	4	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0040	472097	2	RESISTOR, 147K OHM, 1/4W, 1%, CARBON
0042	472115	1	RESISTOR, 13K OHM, 1/4W, 1%, CARBON
0043	472123	1	RESISTOR, 60.4K OHM, 1/4W, 1%, CARBON
0044	472141	2	RESISTOR, 68.1K OHM, 1/4W, 1%
0046	472146	3	RESISTOR, 47.5K OHM, 1/4W, 1%
0047	472200	1	RESISTOR, 5.6 OHM, 1/4W, 1%
0048	472201	2	RESISTOR, 78.7K OHM, 1/4W, 1%
0050	473511	1	RESISTOR, 75K OHM, 1/4W, .1%
0051	473514	6	RESISTOR, 100K OHM, 1/4W, .1%
0052	473531	2	RESISTOR, 1K OHM, 1/4W, .1%
0053	473541	2	RESISTOR, 15K OHM, 1/4W, .1%
0054	473542	1	RESISTOR, 300K OHM, 1/4W, .1%
0055	473544	2	RESISTOR, 200K OHM, 1/4W, .1%
0056	481000	1	DIODE, ZENER, ICL8069CCQ, 1.2V TEMP V REF
0057	481501	9	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0058	484014	2	NPN TRANSISTOR ZTX109C
0059	486650	1	MM74HC08N I.C. QUAD 2 INPUT AND GATE
0060	486664	1	CD 4066B QUAD BILATERAL SWITCH
0061	486675	1	MM74HC14N, IC,CMOS
0062	486677	1	MM74HC164N, IC, CMOS
0063	486682	1	MM74HC132N, IC, CMOS
0064	481026	1	DIODE, ZENER, BZY88C-4V7, 407V, 500MW
0066	486686	1	AD7581JN, IC, CMOS INTERFACE
0067	486713	1	ICM7555IPA CMOS TIMER
0068	486714	1	LM324N QUAD OP AMP
0069	486730	1	LM324AN QUAD OP-AMP
0070	486743	4	IC, TL064BCN, OP AMP LOW OFFSET
0071	486748	1	LM334Z, IC, LINEAR
0072	486751	1	IC, D TO A CONVERTER, AD7528LN
0073	486757	1	IC, TLO64ACN, OP AMP LOW OFFSET
0074	486684	1	AD7524JN, IC, CMOS INTERFACE
0075	150007	2	CAPACITOR 47PF 5% 500V DIPPED MICA
0076	605050	0	#26 WIRE, BLACK
0077	472047	1	RESISTOR, 40.2K OHM, 1/4W, 1%, CARBON
0078	153016	1	CAPACITOR, 220PF,100V.,2%
0079	215009	0	TRANSISTOR PAD, SMALL

0080	2282-01	00	1	12 BIT DAC MODIFICATION BOARD ASSY
0081	161018		0	HOT MELT, SUPERSTICK
0082	2268-04	XX	0	TEST PROCEUDRE, FRONT END ANALOG BD

8.18 ASSY: 2268-17 00 FNT END ANALOG BD ASSY, ****OBSOLETE SEE R-N137***

LINE	PART NO	REV	QPA	DESCRIPTION
0001	2268-02	01	1	FAB, FRONT END ANALOG BOARD, MODEL 7000
0002	2268-03	03	0	SCHEMATIC, FRONT END ANALOG BOARD, MODEL 7000
0003	150004		2	CAPACITOR 680PF 5% 500V DIPPED MICA
0004	152001		1	CAPACITOR 6.8UF 25V 10% TANTALYTIC RAD. LEADS
0005	152003		2	CAPACITOR 22UF 10% 15V TANTALYTIC RADIAL
0006	153002		1	CAPACITOR, .001, 50V, 0.1" PITCH X7R
0007	153024		1	CAPACITOR,100PF,100V., CERAMIC
0008	153049		1	CAPACITOR, 560PF, 100V, .1 PITCH
0009	154016		40	CAPACITOR, .1UF, 50V, .100 SP
0010	154027		2	CAPACITOR, .0015UF,160V,1%,.6 PITCH
0011	154028		2	CAP, .22UF, 63V, +/- 5%, .200(5.1MM)SP
0012	154030		1	CAPACITOR, .068UF, 50V, .200 SP
0013	154031		1	CAPACITOR, .015UF, 50V, .200 SP
0014	154032		2	CAPACITOR,1UF,63V.,10%, POLYESTER
0015	154044		1	CAPACITOR, 1000PF, 50V, 10%, POLYPROPELENE
0016	210078		1	CONNECTOR, 36 PIN, HEADER, SIL, GOLD CONTACT
0017	213404		1	CONNECTOR, 40 PIN, DUAL IN LINE
0018	215006		1	IC SOCKET 16 PIN
0019	215016		12	14 PIN SOCKET
0020	215018		1	IC SOCKET 28 PIN
0021	215019		1	IC SOCKET 8 PIN
0022	215031		2	IC SOCKET, 20 PIN
0023	470006		1	RESISTOR, 3.3 OHM, 1/4W, 10%, CARBON
0024	472011		2	RESISTOR, 1K OHM, 1/4W, 1%, CARBON
0025	472021		2	RESISTOR, 4.75K OHM, 1/4W, 1%, CARBON
0026	472022		1	RESISTOR, 4.99K OHM, 1/4W, 1%, CARBON
0027	472028		1	RESISTOR, 8.06K OHM, 1/4W, 1%, CARBON
0028	472030		2	RESISTOR, 10K OHM, 1/4W, 1%, CARBON
0029	472035		1	RESISTOR, 12.7K OHM, 1/4W, 1%, CARBON
0030	472041		1	RESISTOR, 20K OHM, 1/4W, 1%, CARBON
0031	472043		1	RESISTOR, 24.9K OHM, 1/4W, 1%, CARBON
0032	472049		1	RESISTOR, 49.9K OHM, 1/4W, 1%, CARBON
0033	472183		1	RESISTOR, 357K OHM, 1/4W, 1%
0034	472052		1	RESISTOR, 57.6K OHM, 1/4W, 1%, CARBON
0035	472058		8	RESISTOR, 100K OHM, 1/4W, 1%, CARBON
0036	472062		1	RESISTOR, 150K 0HM, 1/4W, 1%, CARBON
0037	472065		3	RESISTOR, 200K OHM, 1/4W, 1%, CARBON
0038	472070		1	RESISTOR, 402K OHM, 1/4W, 1%, CARBON
0039	472075		3	RESISTOR, 1M OHM, 1/4W, 1%, CARBON
0040	472097		2	RESISTOR, 147K OHM, 1/4W, 1%, CARBON
0041	472258		2	RESISTOR, 4.32K OHM, 1/4W, 1%
0042	472115		1	RESISTOR, 13K OHM, 1/4W, 1%, CARBON
0043	472123		1	RESISTOR, 60.4K OHM, 1/4W, 1%, CARBON
0044	472141		2	RESISTOR, 68.1K OHM, 1/4W, 1%
0045	472098		2	RESISTOR, 17.4K OHM, 1/4W, 1%, CARBON
0046	472146		1	RESISTOR, 47.5K OHM, 1/4W, 1%
0047	472200		1	RESISTOR, 5.6 OHM, 1/4W, 1%

0048	472201	2	RESISTOR, 78.7K OHM, 1/4W, 1%
0049	472250	1	RESISTOR, 510K OHM, 1/4W, 1%, METAL FILM
0050	473511	1	RESISTOR, 75K OHM, 1/4W, .1%
0051	473514	6	RESISTOR, 100K OHM, 1/4W, .1%
0052	473531	2	RESISTOR, 1K OHM, 1/4W, .1%
0053	473541	2	RESISTOR, 15K OHM, 1/4W, .1%
0054	473542	1	RESISTOR, 300K OHM, 1/4W, .1%
0055	473544	2	RESISTOR, 200K OHM, 1/4W, .1%
0056	481000	1	DIODE, ZENER, ICL8069CCQ, 1.2V TEMP V REF
0057	481501	9	DIODE, 1N4148, SILICON, GENERAL PURPOSE
0058	484014	2	NPN TRANSISTOR ZTX109C
0059	486650	1	MM74HC08N I.C. QUAD 2 INPUT AND GATE
0060	486664	1	CD 4066B QUAD BILATERAL SWITCH
0061	486675	1	MM74HC14N, IC,CMOS
0062	486677	1	MM74HC164N, IC, CMOS
0063	486682	1	MM74HC132N, IC, CMOS
0064	481026	1	DIODE, ZENER, BZY88C-4V7, 407V, 500MW
0065	486685	1	AD7528JN, IC, CMOS INTERFACE
0066	486686	1	AD7581JN, IC, CMOS INTERFACE
0067	486713	1	ICM7555IPA CMOS TIMER
0068	486714	1	LM324N QUAD OP AMP
0069	486730	1	LM324AN QUAD OP-AMP
0070	486743	4	IC, TL064BCN, OP AMP LOW OFFSET
0071	486748	1	LM334Z, IC, LINEAR
0072	486751	1	IC, D TO A CONVERTER, AD7528LN
0073	486757	1	IC, TLO64ACN, OP AMP LOW OFFSET
0074	486762	1	IC, AD7524, 8 BIT, D TO A CONVERTER

8.19 ASSY: 5088-01 06 BEZEL ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	4999-01	03	1	MEMBRANE KEYPANEL ASSY, MODEL 7000
0002	5218-01	02	1	SENSOR CAL RECEPTACLE ASSY, MODEL 7000
0003	4984-13	02	1	BEZEL, PAINTED, MODEL 7000
0004	4998-01	02	1	CO2 INPUT HARNESS, MODEL 7000
0005	5010-10	00	1	RIBBON CABLE ASSY, 20 PIN, MODEL 7000
0006	281500		0	4-40 HEXNUT MACHINE SCREW-STEEL CADMIUM
0007	284200		0	#4-40 X 1/4 SLOTTED BINDING HEAD
0009	285000		0	#4 WASHER, INTERN TOOTH LOCK WASHER
0010	285017		0	FLT WSHR, .189 ID X .379 OD X .015 THK
0011	5221-01	02	1	SAO2 INPUT HARNESS, MODEL 7000
0012	161064		0	TAPE, 3/4 X 60 YDS, CLEAR, DOUBLE-SIDED

8.20 ASSY: 5062-01 00 SAO2 INPUT HARNESS, MOD 7000**OBSOLETE SEE R-N150*

LINE	PART NO	REV	QPA	DESCRIPTION
0001	210068		7	PIN, CRIMP, MINI PV RECEPTACLE
0002	210075		7	CONTACT, FEMALE, 20-24AWG, CRIMP, GOLD/NICKEL
0003	212204		1	CONNECTOR, 14 PIN, HOUSING, W/O POLARIZATION
0004	212513		1	CONNECTOR, HOUSING, RECEPTACLE, 20 PIN
0005	8653-10	02	0	CABLE SHIELDED, 4 CONDUCTORS & 1 TWISTED SHLD
0006	210067		1	PLUG, POLARIZATION, WHITE NYLON
0007	608005		0	TUBING, HEAT SHRINK, 1/16" DIA, BLACK
0008	608011		0	TUBING, HEAT SHRINK, 3/16" DIA, BLACK

8.21 ASSY: 5007-06 XX OPTION LIST, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	4981-00	03	0	CAPNOSTAT CO2 SENSOR
0003	8686-00	07	0	RE-FLEX SENSOR FINAL ASSY
0004	8619-00	09	0	EAR SENSOR FINAL ASSEMBLY
0005	8660-00	10	0	FINGER SENSOR FINAL ASSEMBLY
0006	4989-00	03	0	STANDARD AIRWAY ADAPTER, CARTON OF 10.
0007	2410-01	01	0	DIGITAL EXTENDER BD ASSY, MODEL 7000
0008	2411-01	01	0	INPUT EXTENDER BD ASSY, MODEL 7000
0009	4871-00	00	0	OPTION KIT, 240V AC, MODEL 7000
0010	5200-00		0	INTFC CABLE ASSY, *****OBSOLETE SEE 5331-00**
0011	5142-00	00	0	CARRYING CASE WITH LOGO PATCH, MODEL 7000
0012	5139-00	00	0	RECORDER CABLE, MODEL 7000/7000 TO MODEL 350
0013	5133-00	00	0	WAVEFORM ADPTR ASSY, MODEL 7000 TO N100/N200
0014	5222-00	00	0	EXTENSION CABLE ASSY, 1 1/2 FT, SA02 SENSORS
0015	5140-00	01	0	THINKJET PRINTER, MODEL 7000
0016	5287-00	00	0	CABLE ASSY, ANALOG OUTPUT OPEN END

8.22 ASSY: 4998-01 02 CO2 INPUT HARNESS, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	210068		0	PIN, CRIMP, MINI PV RECEPTACLE
0002	210075		16	CONTACT, FEMALE, 20-24AWG, CRIMP, GOLD/NICKEL
0003	210077		1	CONNECTOR, 38 PIN, MINI LATCH HOUSING, BLACK
0004	212511		1	CONNECTOR, HOUSING, RECEPTACLE, 20 PIN, BLACK
0005	605103		0	#24 STRANDED WIRE, BLACK
0006	605104		0	#24 STRANDED WIRE, BROWN
0007	605105		0	#24 STRANDED WIRE, RED
0008	605106		0	#24 STRANDED WIRE, ORANGE
0010	605108		0	#24 STRANDED WIRE, GREEN
0011	605109		0	#24 STRANDED WIRE, BLUE
0012	605110		0	#24 STRANDED WIRE, VIOLET
0013	605111		0	#24 STRANDED WIRE, GRAY
0014	605112		0	#24 STRANDED WIRE, WHITE
0015	605113		0	#24 STRANDED WIRE, WHITE/BLACK
0016	605114		0	#24 STRANDED WIRE, WHITE/BROWN
0017	605115		0	#24 STRANDED WIRE, WHITE/RED
0018	608001		0	CABLE TIE, .094 X 3.62L, SELF-LKG

8.23 ASSY: 5013-01 02 REGULATOR HARNESS ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	210022		0	SOCKET REEL (GOLD) USE WITH 211612-6 PIN
0002	211305		1	3 CKT.SOCKET HSG. MINIATURE RECTANGULAR
0003	215007		1	SOCKET FOR TO-3 TRANSISTORS (KIT)
0004	605253		0	#18 HOOKUP WIRE, RED
0005	605257		0	#18 HOOKUP WIRE, BLUE
0006	605258		0	#18 HOOKUP WIRE, BROWN
0007	608001		0	CABLE TIE, .094 X 3.62L, SELF-LKG
0008	608003		0	TUBING, HEAT SHRINK, 1/8" DIA, BLACK

8.24 ASSY: 4959-01 03 SENSOR CAL RCPT ASSY, 1260***OBSOLETE SEE R-N161**

LINE	PART NO	REV	QPA	DESCRIPTION
0001	4959-16	04	1	SENSOR CALIBRATION RECEPTACLE, MODEL 7000

0002	5220-01	00	1	CAL SWITCH ASSY, 7000**OBSOLETE
0003	5026-01	05	1	SPAN REFERENCE CELL HOLDER ASSY, MODEL 7000
0004	5027-01	04	1	ZERO REFERENCE CELL HOLDER ASSY, MODEL 7000
0005	161007		0	SUPERBONDER 414 ADHESIVE
0006	284201		0	#4-40 X 5/16 SLOTTED BINDING HEAD STEEL CAD.
0009	5178-32	00	1	LABEL, "48" TORR VALUE, SPAN CELL, MDL 7000
0009	5179-32	00	0	LABEL, "49" TORR VALUE, SPAN CELL, MDL 7000
0009	5180-32	00	0	LABEL, "50" TORR VALUE, SPAN CELL, MDL 7000
0009	5181-32	00	0	LABEL, "51" TORR VALUE, SPAN CELL, MDL 7000
0009	5182-32	00	0	LABEL, "52" TORR VALUE, SPAN CELL, MDL 7000
0009	5183-32	00	0	LABEL, "53" TORR VALUE, SPAN CELL, MDL 7000
0009	5184-32	00	0	LABEL, "54" TORR VALUE, SPAN CELL, MDL 7000
0009	5185-32	00	0	LABEL, "55" TORR VALUE, SPAN CELL, MDL 7000
0009	5186-32	00	0	LABEL, "56" TORR VALUE, SPAN CELL, MDL 7000
0009	5187-32	00	0	LABEL, "57" TORR VALUE, SPAN CELL, MDL 7000
0009	5188-32	00	0	LABEL, "58" TORR VALUE, SPAN CELL, MDL 7000
0009	5189-32	00	0	LABEL, "59" TORR VALUE, SPAN CELL, MDL 7000
0009	5190-32	00	0	LABEL, "60" TORR VALUE, SPAN CELL, MDL 7000
0009	5191-32	00	0	LABEL, "61" TORR VALUE, SPAN CELL, MDL 7000
0009	5192-32	00	0	LABEL, "62" TORR VALUE, SPAN CELL, MDL 7000
0009	5193-32	00	0	LABEL, "63" TORR VALUE, SPAN CELL, MDL 7000
0009	5194-32	00	0	LABEL, "64" TORR VALUE, SPAN CELL, MDL 7000
0010	4959-04	XX	0	TEST PROCEDURE, SENSOR CAL RCPT, MODEL 7000

8.25 ASSY: 5218-01 02 SENSOR CAL RECEPTACLE ASSY, MODEL 7000

LINE	PART NO	REV	QPA	DESCRIPTION
0001	4959-16	04	1	SENSOR CALIBRATION RECEPTACLE, MODEL 7000
0002	5025-01	03	1	CAL CELL HARNESS ASSY, MODEL 7000
0003	5382-01	P0	1	ZERO/SPAN REFERENCE CELL HLDR SET ASSY
0005	5178-32	00	1	LABEL, "48" TORR VALUE, SPAN CELL, MDL 7000
0005	5179-32	00	0	LABEL, "49" TORR VALUE, SPAN CELL, MDL 7000
0005	5180-32	00	0	LABEL, "50" TORR VALUE, SPAN CELL, MDL 7000
0005	5181-32	00	0	LABEL, "51" TORR VALUE, SPAN CELL, MDL 7000
0005	5182-32	00	0	LABEL, "52" TORR VALUE, SPAN CELL, MDL 7000
0005	5183-32	00	0	LABEL, "53" TORR VALUE, SPAN CELL, MDL 7000
0005	5184-32	00	0	LABEL, "54" TORR VALUE, SPAN CELL, MDL 7000
0005	5185-32	00	0	LABEL, "55" TORR VALUE, SPAN CELL, MDL 7000
0005	5186-32	00	0	LABEL, "56" TORR VALUE, SPAN CELL, MDL 7000
0005	5187-32	00	0	LABEL, "57" TORR VALUE, SPAN CELL, MDL 7000
0005	5188-32	00	0	LABEL, "58" TORR VALUE, SPAN CELL, MDL 7000
0005	5189-32	00	0	LABEL, "59" TORR VALUE, SPAN CELL, MDL 7000
0005	5190-32	00	0	LABEL, "60" TORR VALUE, SPAN CELL, MDL 7000
0005	5191-32	00	0	LABEL, "61" TORR VALUE, SPAN CELL, MDL 7000
0005	5192-32	00	0	LABEL, "62" TORR VALUE, SPAN CELL, MDL 7000
0005	5193-32	00	0	LABEL, "63" TORR VALUE, SPAN CELL, MDL 7000
0005	5194-32	00	0	LABEL, "64" TORR VALUE, SPAN CELL, MDL 7000
0006	161007		0	SUPERBONDER 414 ADHESIVE
0007	281509		0	2-56 HEXNUT, MACHINE SCREW, STEEL-CAD
0008	281213		0	SCREW, 2-56 X 9/16 L, SLOTTED BINDING HEAD
0009	512002		2	SWITCH, SPDT, 115V AC, 5A, LEVER, SUBMINI
0010	605103		0	#24 STRANDED WIRE, BLACK
0011	608001		0	CABLE TIE, .094 X 3.62L, SELF-LKG
0012	608003		0	TUBING, HEAT SHRINK, 1/8" DIA, BLACK
0013	608004		0	TUBING, HEAT SHRINK, 3/32" DIA, BLACK

0014	608005		0	TUBING, HEAT SHRINK, 1/16" DIA, BLACK
0015	161008		0	LOCTITE THREADLOCKER 242 ADHESIVE/SEALANT
0016	5218-04	XX	0	TEST PROCEDURE, SENSOR CAL RCPT, MODEL 7000

9.0 Schematics and Assembly Drawings

1. 5007-09-01 Overall Wiring Diagram, Model 7000
2. 5007-09-01 Overall Wiring Diagram, Model 7000
3. 5007-09-01 Overall Wiring Diagram, Model 7000
4. 4985-10-01 Transformer, Model 1260 and 7000
5. 4999-27-02 Membrane Keypanel, Model 7000
6. 2400-01-04 Mother Board Assy, Model 1260
7. 2400-03-04 Schematic, Mother Board, Model 1260
8. 2400-03-04 Schematic, Mother Board, Model 1260
9. 2401-01-01 Power Supply Assy, Model 1260
10. 2401-03-01 Schematic, Power Supply Board, Model 1260
11. 2402-01-03 CPU Memory Board Assembly, Model 1260
12. 2402-03-03 Schematic, CPU Memory Board Model 1260
13. 2403-01-03 Main CPU Board Assy, Model 1260
14. 2403-03-03 Schematic, Main CPU Board, Model 1260
15. 2404-01-02 Video Controller Board Assy, Model 1260
16. 2404-03-02 Schematic, Video Controller Board, Model 1260
17. 2405-01-03 RAM SIMM Board Assy, Model 1260
18. 2405-03-03 Schematic, RAM SIMM Board, Model 1260
19. 2407-01-03* Front End Board Assy (CTC), Model 1260
20. 2407-03-03* Schematic, Front End Board (CTC), Model 1260
21. 2409-01-01* Piggyback Board Assy (CTC), Model 1260
22. 2409-03-01* Schematic, Piggyback Board, Model 1260
23. 2418-01-02 Piggyback Board Assy, Model 1260 and 7000
24. 2418-03-02 Schematic, Piggyback Board, Model 1260 and 7000
25. 2421-01-00 Front End Board Assy, Model 1260 and 7000
26. 2421-03-00 Schematic, Front End Board, Model 1260 and 7000
27. 2267-01-01 Assembly Front End Board, Digital

28. 2267-03-01 Schematic, Saturation Front End Board, Digital
29. 2268-01-01 Saturation Analog Front End Board
30. 2268-03-01 Schematic, Saturation Front End Analog Board
31. 2268-03-01 Schematic, Saturation Front End Analog Board
32. 5067-00-00* Adapter Cable Assy, Model 500 Sensor to Model 7000
33. 5006-01-02 Power Harness Assy, Model 1260
34. 4998-01-01 CO_2 Input Harness, Model 1260
35. 5062-01-00 O_2 Input Harness Assy, Model 7000
36. 5074-10-01 Ribbon Cable, Rear Panel, Model 1260
37. 5013-01-01 Regulator Harness Assy, Model 1260
38. 4959-01-02 Sensor Cal Rcpt Assy, Model 1260
39. 5055-01-02 Rear Panel Assembly, Model 1260
40. 5007-01-02 Main Assy, Metal Box, Model 7000
41. 5007-01-02 Main Assy, Metal Box, Model 7000
42. 5088-01-02 Bezel Assy, Model 7000
43. 5007-00-02 Final Assy, Metal Box, Model 7000

*Denotes drawings associated with earlier units.

28. 2267-03-01 Schematic, Saturation Front End Board, Digital
29. 2268-01-01 Saturation Analog Front End Board
30. 2268-03-01 Schematic, Saturation Front End Analog Board
31. 2268-03-01 Schematic, Saturation Front End Analog Board
32. 5067-00-00* Adapter Cable Assy, Model 500 Sensor to Model 7000
33. 5006-01-02 Power Harness Assy, Model 1260
34. 4998-01-01 CO_2 Input Harness, Model 1260
35. 5062-01-00 O_2 Input Harness Assy, Model 7000
36. 5074-10-01 Ribbon Cable, Rear Panel, Model 1260
37. 5013-01-01 Regulator Harness Assy, Model 1260
38. 4959-01-02 Sensor Cal Rcpt Assy, Model 1260
39. 5055-01-02 Rear Panel Assembly, Model 1260
40. 5007-01-02 Main Assy, Metal Box, Model 7000
41. 5007-01-02 Main Assy, Metal Box, Model 7000
42. 5088-01-02 Bezel Assy, Model 7000
43. 5007-00-02 Final Assy, Metal Box, Model 7000

*Denotes drawings associated with earlier units.

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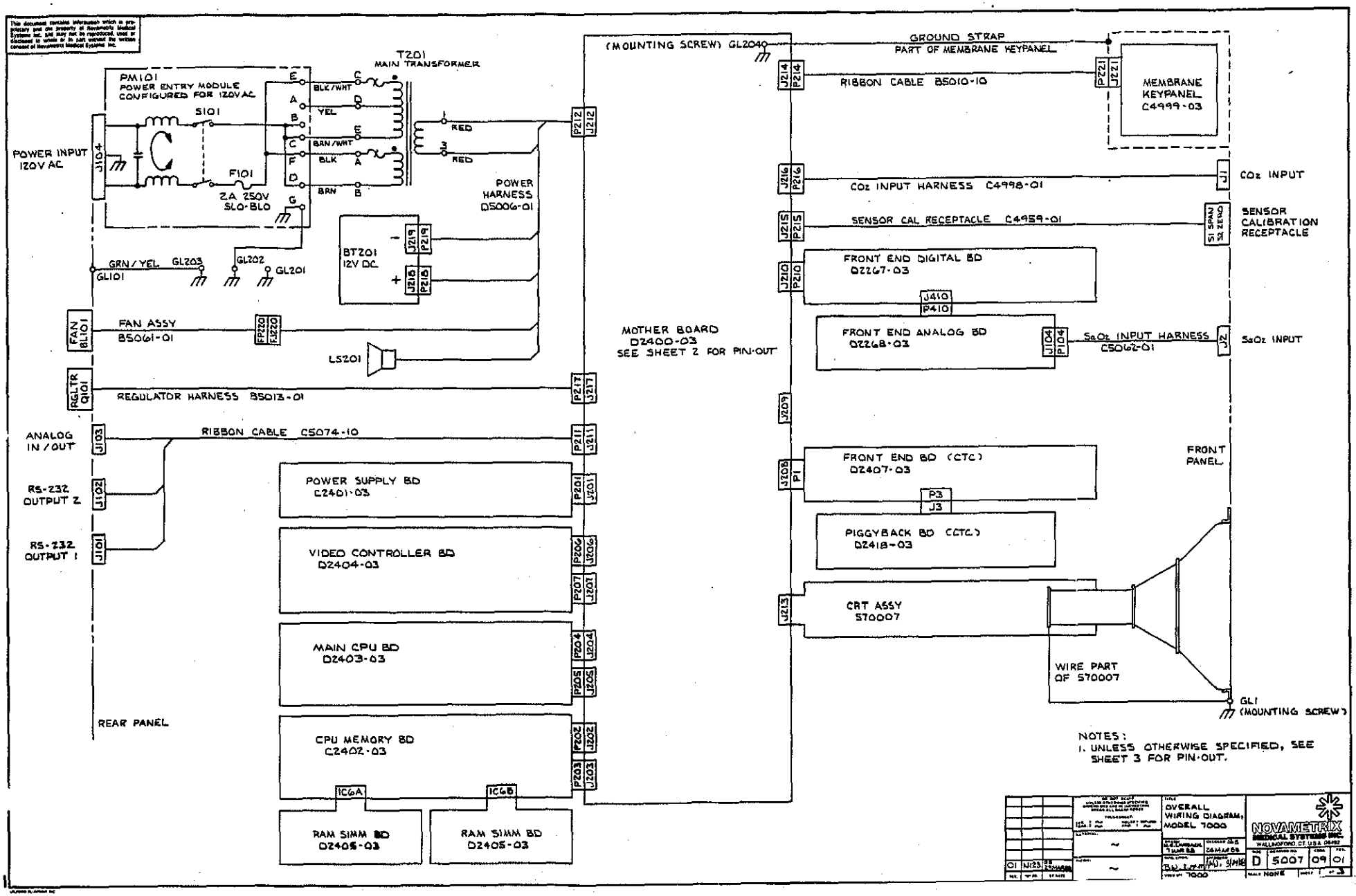

NOTES:
1. UNLESS OTHERWISE SPECIFIED, SEE SHEET 3 FOR PIN-OUT.

OVERALL WIRING DIAGRAM, MODEL 7000

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492

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SCALE NONE SHEET 1 OF 3

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BACK PANEL HEADER

P211	J211			J211	P211
1	1	KEY	DAC3	2	2
3	3	DAC1	DAC2	4	4
5	5	SYS GND	SYS GND	6	6
7	7	AGND	AGND	8	8
9	9	A/D 1	A/D 2	10	10
11	11	A/D 3	UNUSED	12	12
13	13	UNUSED	UNUSED	14	14
15	15	DATA IN3	XMITT3	16	16
17	17	RTS3	CTS3	18	18
19	19	COMM GND1	DATA IN4	20	20
21	21	XMITT4	RTS4	22	22
23	23	CTS4	COMM GND2	24	24

POWER SUPPLY HEADER

P201	J201			J201	P201
A1	A1	SYS GND	SYS GND	B1	B1
A2	A2	SYS GND	SYS GND	B2	B2
A3	A3	SYS GND	SYS GND	B3	B3
A4	A4	+12V	+12V	B4	B4
A5	A5	+12V	+12V	B5	B5
A6	A6	UNUSED	UNUSED	B6	B6
A7	A7	BATTERY (+)	BATTERY (+)	B7	B7
A8	A8	BATTERY (+)	BATTERY (+)	B8	B8
A9	A9	UNUSED	UNUSED	B9	B9
A10	A10	+5V	+5V	B10	B10
A11	A11	+5V	+5V	B11	B11
A12	A12	+5V	+5V	B12	B12
A13	A13	UNUSED	UNUSED	B13	B13
A14	A14	CRT/FAN +V	CRT/FAN +V	B14	B14
A15	A15	UNUSED	UNUSED	B15	B15
A16	A16	+15V	+15V	B16	B16
A17	A17	+15V	+15V	B17	B17
A18	A18	UNUSED	UNUSED	B18	B18
A19	A19	UNUSED	UNUSED	B19	B19
A20	A20	-15V	-15V	B20	B20
A21	A21	-15V	-15V	B21	B21
A22	A22	UNUSED	UNUSED	B22	B22
A23	A23	UNUSED	UNUSED	B23	B23
A24	A24	POWER SWITCH	SYS GND	B24	B24
A25	A25	PLED HOT	SYS GND	B25	B25
A26	A26	AC LED HOT	SYS GND	B26	B26
A27	A27	UNUSED	UNUSED	B27	B27
A28	A28	UNUSED	BATTERY ON	B28	B28
A29	A29	UNUSED	UNUSED	B29	B29
A30	A30	SYS GND	SYS GND	B30	B30
A31	A31	SYS GND	SYS GND	B31	B31
A32	A32	SYS GND	SYS GND	B32	B32

CRT HEADER

J213	
SYS GND	1
BRIGHTNESS HIGH	2
BRIGHTNESS LOW	3
BRIGHTNESS CENTER	4
UNUSED	5
HSYNC	6
CRT/FAN +V	7
VIDEO	8
VSYNC	9
SYS GND	10

P203	J203	CPU MEMORY BOARD		J203	P203
P205	J205	MAIN CPU BOARD		J205	P205
P207	J207	VIDEO CONTROLLER BOARD		J207	P207
A1	A1	CRT DTACK#	SYS GND	B1	B1
A2	A2	INT#	DE#	B2	B2
A3	A3	ADDR1	SYSTEM RST#	B3	B3
A4	A4	ADDR2	ADDR23	B4	B4
A5	A5	ADDR3	ADDR22	B5	B5
A6	A6	ADDR4	ADDR21	B6	B6
A7	A7	ADDR5	ADDR20	B7	B7
A8	A8	ADDR6	ADDR19	B8	B8
A9	A9	ADDR7	ADDR18	B9	B9
A10	A10	ADDR8	ADDR17	B10	B10
A11	A11	ADDR9	ADDR16	B11	B11
A12	A12	ADDR10	ADDR15	B12	B12
A13	A13	ADDR11	ADDR14	B13	B13
A14	A14	ADDR12	ADDR13	B14	B14
A15	A15	DATA 0	DATA 15	B15	B15
A16	A16	DATA 1	DATA 14	B16	B16
A17	A17	DATA 2	DATA 13	B17	B17
A18	A18	DATA 3	DATA 12	B18	B18
A19	A19	DATA 4	DATA 11	B19	B19
A20	A20	DATA 5	DATA 10	B20	B20
A21	A21	DATA 6	DATA 9	B21	B21
A22	A22	DATA 7	DATA 8	B22	B22
A23	A23	LBRE#	LBWE#	B23	B23
A24	A24	UBRE#	UBWE#	B24	B24
A25	A25	SWITCH 1	SWITCH 5	B25	B25
A26	A26	SWITCH 2	SWITCH 6	B26	B26
A27	A27	SWITCH 3	SWITCH 7	B27	B27
A28	A28	SWITCH 4	UNUSED	B28	B28
A29	A29	LED 1	LED 4	B29	B29
A30	A30	LED 2	LED 5	B30	B30
A31	A31	LED 3	SPARE OUT	B31	B31
A32	A32	R/W#	UNUSED	B32	B32

P202	J202	CPU MEMORY BOARD		J202	P202
P204	J204	MAIN CPU BOARD		J204	P204
P206	J206	VIDEO CONTROLLER BOARD		J206	P206
A1	A1	SYS GND	SYS GND	B1	B1
A2	A2	UNUSED	U4AUS E#	B2	B2
A3	A3	+5V	U2AUD E#	B3	B3
A4	A4	CSU1#	+15V	B4	B4
A5	A5	-15V	A/D CS#	B5	B5
A6	A6	CSU2#	BATTERY (+)	B6	B6
A7	A7	CSU3#	CSU4#	B7	B7
A8	A8	INT2#	INT6#	B8	B8
A9	A9	MUX CS#	DTR2	B9	B9
A10	A10	DTR1	CRT INT#	B10	B10
A11	A11	DATA IN1	DATA IN2	B11	B11
A12	A12	XMITT1	XMITT2	B12	B12
A13	A13	CTS1	CTS2	B13	B13
A14	A14	RTS1	RTS2	B14	B14
A15	A15	DATA IN3	DATA IN4	B15	B15
A16	A16	XMITT3	XMITT4	B16	B16
A17	A17	CTS3	CTS4	B17	B17
A18	A18	RTS3	RTS4	B18	B18
A19	A19	COMM GND1	COMM GND2	B19	B19
A20	A20	VIDEO	BRIGHT HIGH	B20	B20
A21	A21	HSYNC	BRIGHT CENTER	B21	B21
A22	A22	VSYNC	BRIGHT LOW	B22	B22
A23	A23	AGND	AGND	B23	B23
A24	A24	A/D 1	A/D 2	B24	B24
A25	A25	A/D 3	DAC 1	B25	B25
A26	A26	DAC 2	DAC 3	B26	B26
A27	A27	I/O 1	BATTERY ON	B27	B27
A28	A28	SPAN SWITCH	WATCHDOG RST#	B28	B28
A29	A29	ZERO SWITCH	I/O 7	B29	B29
A30	A30	I/O 4	I/O 8	B30	B30
A31	A31	SPEAKER (+)	ACRTC CS#	B31	B31
A32	A32	UNUSED	DAC 4	B32	B32

POWER HEADER

J212	P212	
1	1	BATTERY (+)
2	2	FAN (+)
3	3	BATTERY (-)
4	4	
5	5	
6	6	FAN (-)
7	7	SPEAKER (-)
8	8	SPEAKER (+)

3 TERMINAL REGULATOR HEADER

J217	P217	
1	1	VIN
2	2	VOUT
3	3	ADJ

MOTHER BOARD GROUND CONNECTIONS

- AGND
- AGND1
- AGND2
- AGND3
- AGND4
- SYS GND
- SHIELD
- COMM GND1
- COMM GND2

P1	J209	FRONT END BOARD (CTC)		J209	P1
P209	J209	UNUSED		J209	P209
P218	J218	FRONT END DIGITAL BOARD		J218	P218
A1	A1	AGND1	UNUSED	B17	B17
A2	A2	DATA OUT	UNUSED	B18	B18
A3	A3	V8 DATA	+5V	B19	B19
A4	A4	V8	UNUSED	B20	B20
A5	A5	SIGNAL 10	INT1#	B21	B21
A6	A6	SIGNAL 10	INT2#	B22	B22
A7	A7	AGND2	INT3#	B23	B23
A8	A8	SIGNAL 16	DTR2	B24	B24
A9	A9	SIGNAL 19	DTR1	B25	B25
A10	A10	SIGNAL 22	SYSTEM RST#	B26	B26
A11	A11	SIGNAL 25	A/D 2	B27	B27
A12	A12	HEATER CONTROL	UNUSED	B28	B28
A13	A13	SIGNAL 31	DAC2	B29	B29
A14	A14	UNUSED	I/O 2	B30	B30
A15	A15	UNUSED	BATTERY ON	B31	B31
A16	A16	SHIELD	I/O 9	B32	B32
A17	A17	UNUSED	AGND1	C1	C1
A18	A18	+5V	SIGNAL 3	C2	C2
A19	A19	UNUSED	T2	C3	C3
A20	A20	+15V	HEATER	C4	C4
A21	A21	UNUSED	BOOST	C5	C5
A22	A22	DATA IN1	SOURCE	C6	C6
A23	A23	XMITT1	AGND4	C7	C7
A24	A24	S/W RESET	SIGNAL 18	C8	C8
A25	A25	CTS1	SIGNAL 21	C9	C9
A26	A26	UNUSED	SIGNAL 24	C10	C10
A27	A27	A/D 1	SIGNAL 27	C11	C11
A28	A28	UNUSED	SIGNAL 30	C12	C12
A29	A29	DAC1	SIGNAL 33	C13	C13
A30	A30	I/O 1	UNUSED	C14	C14
A31	A31	I/O 4	UNUSED	C15	C15
A32	A32	I/O 7	SHIELD	C16	C16
B1	B1	AGND1	UNUSED	C17	C17
B2	B2	REF OUT	-15V	C18	C18
B3	B3	V8 REF	UNUSED	C19	C19
B4	B4	SIGNAL 8	RAW DC	C20	C20
B5	B5	SIGNAL 11	UNUSED	C21	C21
B6	B6	SIGNAL 14	DATA IN2	C22	C22
B7	B7	AGND3	XMITT2	C23	C23
B8	B8	SIGNAL 17	RTS2	C24	C24
B9	B9	SIGNAL 20	CTS2	C25	C25
B10	B10	SIGNAL 23	UNUSED	C26	C26
B11	B11	SIGNAL 26	A/D 3	C27	C27
B12	B12	SIGNAL 29	UNUSED	C28	C28
B13	B13	SIGNAL 32	DAC3	C29	C29
B14	B14	UNUSED	I/O 3	C30	C30
B15	B15	UNUSED	I/O 6	C31	C31
B16	B16	SHIELD	I/O 9	C32	C32

TRANSDUCER HEADER

P216	J216			J216	P216
1	1	DATA OUT	SIGNAL 16	2	2
3	3	REF OUT	SIGNAL 17	4	4
5	5	SIGNAL 3	SIGNAL 18	6	6
7	7	V8 DATA	SIGNAL 19	8	8
9	9	V8 REF	SIGNAL 20	10	10
11	11	T2	SIGNAL 21	12	12
13	13	V8	SIGNAL 22	14	14
15	15	SIGNAL 8	SIGNAL 23	16	16
17	17	HEATER	SIGNAL 24	18	18
19	19	SIGNAL 10	SIGNAL 25	20	20
21	21	SIGNAL 11	SIGNAL 26	22	22
23	23	BOOST	SIGNAL 27	24	24
25	25	SIGNAL 13	HEATER CONTROL	26	26
27	27	SIGNAL 14	SIGNAL 29	28	28
29	29	SOURCE	SHIELD	30	30
31	31	AGND 1	AGND 2	32	32
33	33	AGND 3	AGND 4	34	34
35	35	+5V	-15V	36	36
37	37	+15V	KEY	38	38

CAL CELL HEADER

P215	J215			J215	P215
1	1	I/O 1	UNUSED	2	2
3	3	SPAN SWITCH	I/O 6	4	4
5	5	ZERO SWITCH	I/O 7	6	6
7	7	I/O 4	SYS GND	8	8
9	9	+5V	-15V	10	10
11	11	+15V	KEY	12	12
13	13	UNUSED	UNUSED	14	14

FRONT PANEL HEADER

P221	P214	J214		J214	P214	P221
1	1	1	SWITCH 1	2	2	2
3	3	3	SWITCH 2	4	4	4
5	5	5	SWITCH 3	6	6	6
7	7	7	SWITCH 4	8	8	8
9	9	9	LED 1	10	10	10
11	11	11	LED 2	12	12	12
13	13	13	LED 3	14	14	14
15	15	15	AC LED HOT	16	16	16
17	17	17	SYS GND	18	18	18
19	19	19	UNUSED	20	20	20

(2 MIN) (AUDIO OFF) (ALERT RESET)

MOTHER BOARD

OVERALL WIRING DIAGRAM, MODEL 7000

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. USA 06492

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7000

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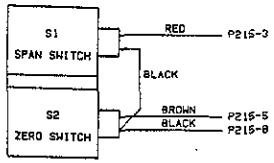
SENSOR CALIBRATION RECEPTACLE



O2 INPUT CONNECTOR

P104	J2			J2	P104	
N/C	1	UNUSED	RED-LED DRIVE	11	3	RED
GREEN 6	2	YELD1-COMM ANODE	UNUSED	12	N/C	
N/C	3	UNUSED	UNUSED	13	N/C	
WHITE 2	4	PHOTO DIODE-ANODE	UNUSED	14	N/C	
BLACK 1	5	PHOTO DIODE-CATHODE	EAR PROBE DETECTOR	15	5	ORANGE
WHITE/BLACK 7	6	GROUND - I SHIELD	UNUSED	16	N/C	
N/C	7	UNUSED	UNUSED	17	N/C	
BLUE 4	8	INF-RED-LED DRIVE	UNUSED	18	N/C	
N/C	9	UNUSED	UNUSED	19	N/C	
N/C	10	UNUSED	UNUSED	20	N/C	

CO2 INPUT CONNECTOR

P216	J1			J1	P218	
WHITE 29	1	SOURCE	UNUSED	11	N/C	
N/C	2	UNUSED	-15V	12	36	BROWN
GREY 9	3	VB REF	SHIELD	13	30	ORANGE
BLUE 3	4	REF OUT	VB	14	13	WHITE/RED
N/C	5	UNUSED	T2	15	11	VIOLET
RED 1	6	DATA OUT	HEATER CONTROL	16	26	RED
YELLOW 7	7	VB DATA	BOOST	17	23	BLACK
N/C	8	UNUSED	+15V	18	36	BROWN
GREEN 17	9	HEATER	+15V	19	37	GREEN
ORANGE 30	10	SHIELD	AGND1	20	31	YELLOW

FRONT BEZEL

FRONT BEZEL MEMBRANE CONNECTOR

P214	P221	J221			J221	P221	P214
1	1	1	SWITCH 1	SWITCH 5	2	2	2
3	3	3	SWITCH 2	SWITCH 6	4	4	4
5	5	5	SWITCH 3	SWITCH 7	6	6	6
7	7	7	SWITCH 4	POWER SWITCH	8	8	8
9	9	9	LED 1	LED 4	10	10	10
11	11	11	LED 2	LED 5	12	12	12
13	13	13	LED 3	PLED HOT	14	14	14
15	15	15	AC LED HOT	+5V	16	16	16
17	17	17	SYS GND	KEY	18	18	18
19	19	19	UNUSED	UNUSED	20	20	20

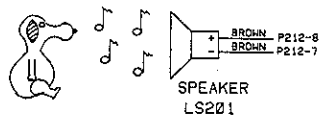
FRONT PANEL

GROUND SHIELD STRAP

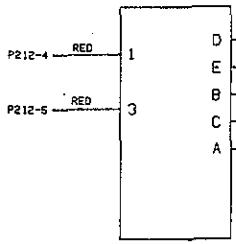
TO CHASSIS SCREW ON CORNER OF MOTHER BOARD

GL204

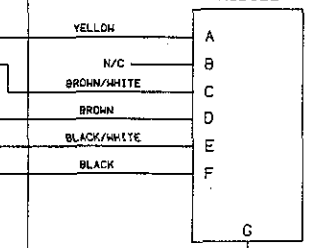
CHASSIS



T201 TRANSFORMER



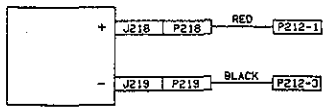
PM101 POWER ENTRY MODULE



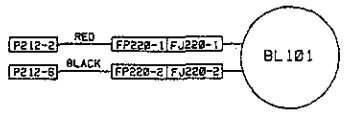
GL202

GREEN/YELLOW

BT201 12V BATTERY



FAN -> 12V,DC BRUSHLESS



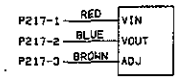
BINDING POST GL101

GL203

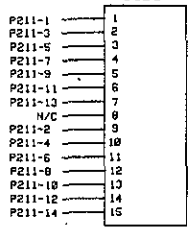
GREEN/YELLOW

REAR PANEL

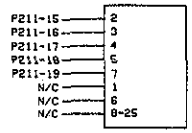
O101 3 TERMINAL REGULATOR



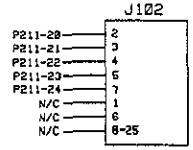
ANALOG IN/OUT J103



RS-232 OUTPUT 1 J101



RS-232 OUTPUT 2 J102



				TITLE: OVERALL WIRING DIAGRAM, MODEL 7000	NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD CT U.S.A. 06492	
				DRAWN: M.D'ALLESSANDRO 2/14/97	CHECKED: BG 2/14/97	SIZE: D DRAWING NO: 5007 REV: 09 01
				MFG ENGR: Bill	APPROVED:	MATL: NONE SHEET 3 OF 3
				MODEL NO: 7000		

DO NOT SCALE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM] UNLESS OTHERWISE SPECIFIED TOLERANCES

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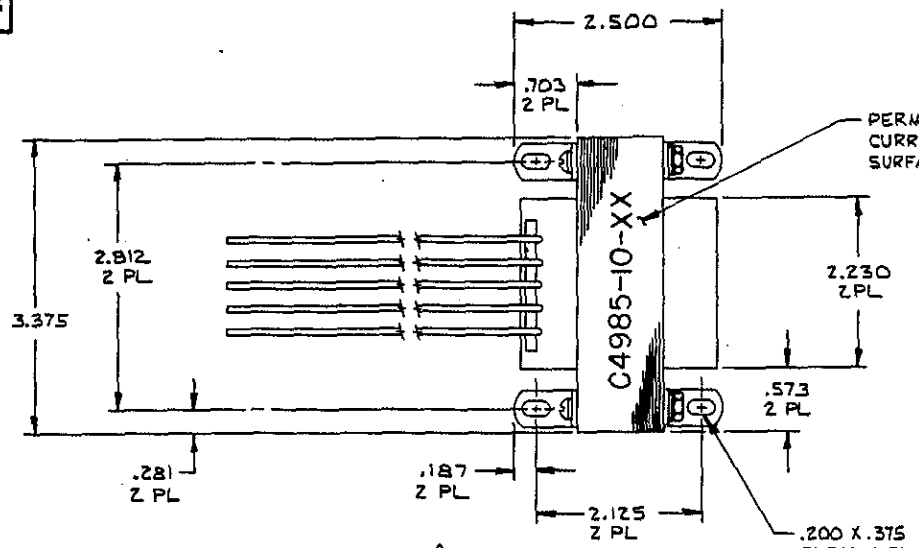

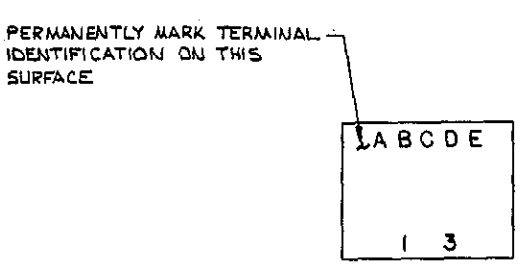

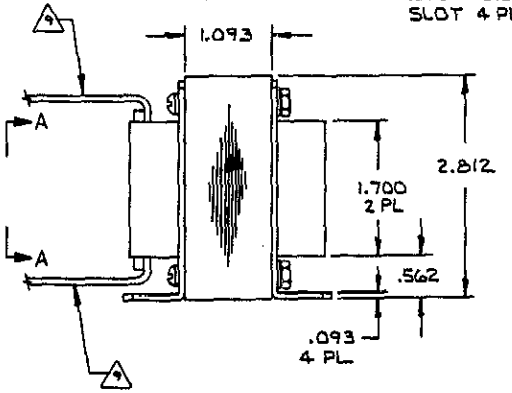

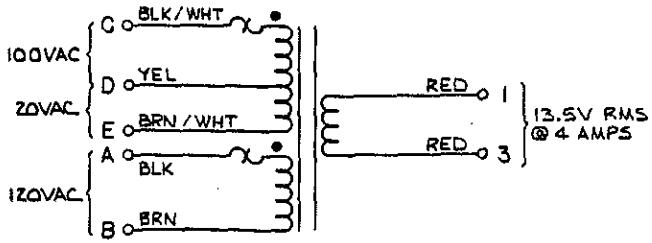

SCHEMATIC DIAGRAM

NOTES:

1. Transformer to meet requirements of UL 544, CSA 22.2 No. 125 and IEC 601.1.
2. Primary to be thermally protected such that it does not exceed the max allowable temperature rise, Class A insulation 150°C, Class B insulation 175°C, with the winding under overload condition.
3. Transformer must be able to pass 2.5kV RMS dielectric requirements for 1 minute, primary to secondary and primary to frame.
4. Transformer to have less than 20uA leakage current from primary to shield and frame at 120VAC 60Hz, primary voltage.
5. Interlayer insulation shall extend beyond winding. Minimum creepage distance between secondary windings to be 4mm. Minimum creepage distance between primary and secondary to be 8mm.
6. Deleted.
7. Secondary DC voltage required with 180VAC applied to 120V 50/60Hz, 90VAC applied to 100V 50/60Hz, 198VAC applied to 220V 50/60Hz and 216VAC applied to 240V 50/60Hz primary connections. Tolerances on DC voltage is + or - 5%.
8. AC voltage required with 108VAC applied to 120V 50/60Hz, 90VAC applied to 100V 50/60Hz, 198VAC applied to 220V 50/60Hz and 216VAC applied to 240V 50/60Hz primary connections. Tolerance on AC voltages is + or - 5%.
9. All primary leads to be 18 AWG, UL 1015, CSA TEW and 18 inches long. All secondary leads to be 20 AWG, UL 1007, CSA type TR-64 and 18 inches long.
10. Transformer to be used in four primary configurations:
    - A. 100V, terminals C & D
    - B. 120V, terminals A & B in parallel with C & E
    - C. 220V, terminals A & B in series with C & D
    - D. 240V, terminals A & B in series with C & E

ECR PENDING
N745

REV	"N" NO	BY	DATE
01	N104		18 DEC 87

TITLE: TRANSFORMER, MODEL 1240 & MODEL 7000

NOVAMETRIX MEDICAL SYSTEMS, INC.
WALLINGFORD, CT U.S.A. 06492

DRAWN	CHKD	APPROVED
MRL 12-14-87	GDB 12-14-87	7-22-87

SCALE: 1/1 — USED ON: 7000 1240

PART NUMBER

SIZE	DRAWING NO	DASH	REV
C	4985	10	01

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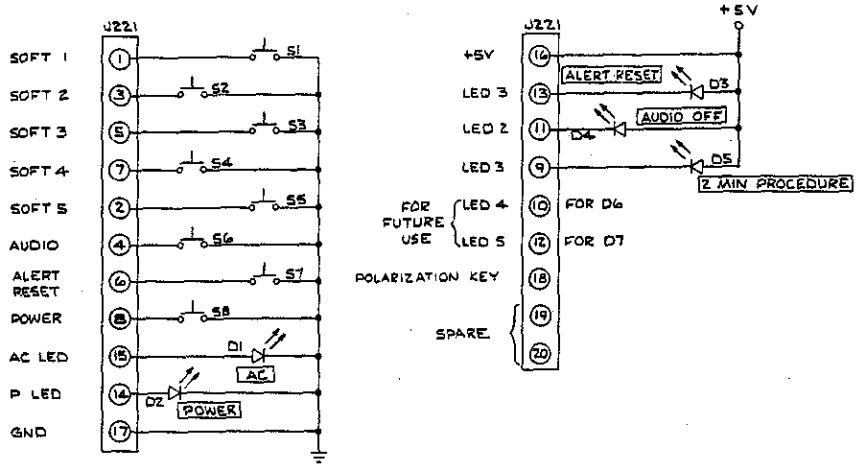

		MEMBRANE KEYPANEL, MODEL 7000	NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT, U.S.A. 06492	
			D	4999	27	02

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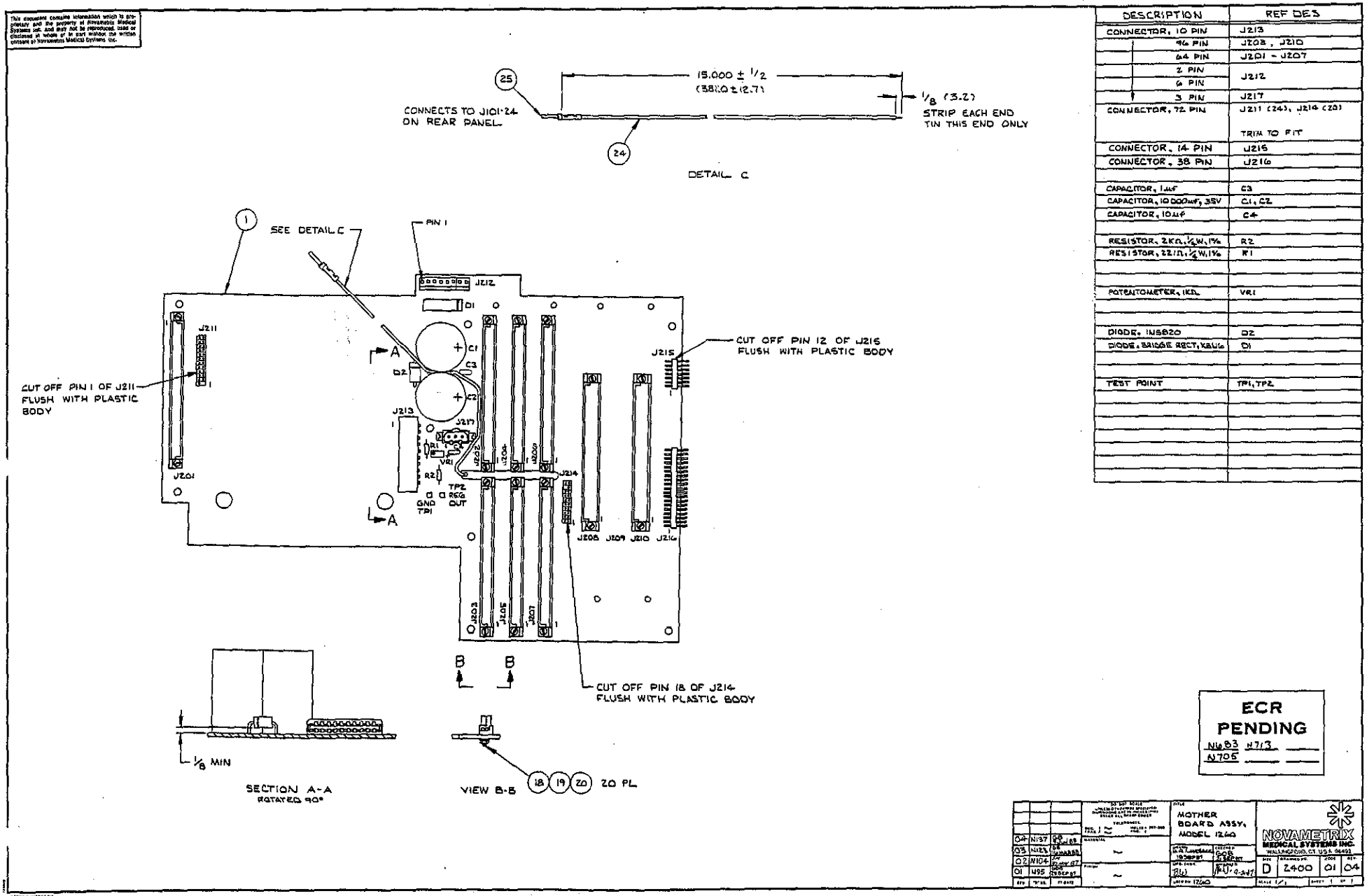

DESCRIPTION	REF DES
CONNECTOR, 10 PIN	J213
96 PIN	J208, J210
64 PIN	J201 - J207
2 PIN	J212
6 PIN	
3 PIN	J217
CONNECTOR, 72 PIN	J211 (24), J214 (20) TRIM TO FIT
CONNECTOR, 14 PIN	J216
CONNECTOR, 38 PIN	J215
CAPACITOR, 1 μF	C3
CAPACITOR, 10 000 μF, 35V	C1, C2
CAPACITOR, 10 μF	C4
RESISTOR, 2 KΩ, 1/4 W, 1%	R2
RESISTOR, 22 Ω, 1/4 W, 1%	R1
POTENTIOMETER, 1 KΩ	VR1
DIODE, IN5820	D2
DIODE, BRIDGE RECT, KBU6	D1
TEST POINT	TP1, TP2

ECR PENDING

N683 N713 ____

N705 ____ ____

04	N137	GB 4/1/88	
03	N125	GB 12/22/87	
02	N104	GB 10/29/87	
01	N95	GB 10/19/87	
REV	"P" NO.	BY DATE	

DO NOT SCALE UNLESS SPECIFIED. DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE SPECIFIED: FRAC ± 1/32, DEC ± .005, ANG ± 1°

MATERIAL —

FINISH —

TITLE: MOTHER BOARD ASSY, MODEL 1240

DRAWN GB 10/29/87

CHECKED GB 10/29/87

APPROVED [illegible] 11-9-87

LAST USED ON 1240

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492

SIZE D | DRAWING NO. 2400 | CODE 01 | REV 04

SCALE 1/1 | SHEET 1 OF 1

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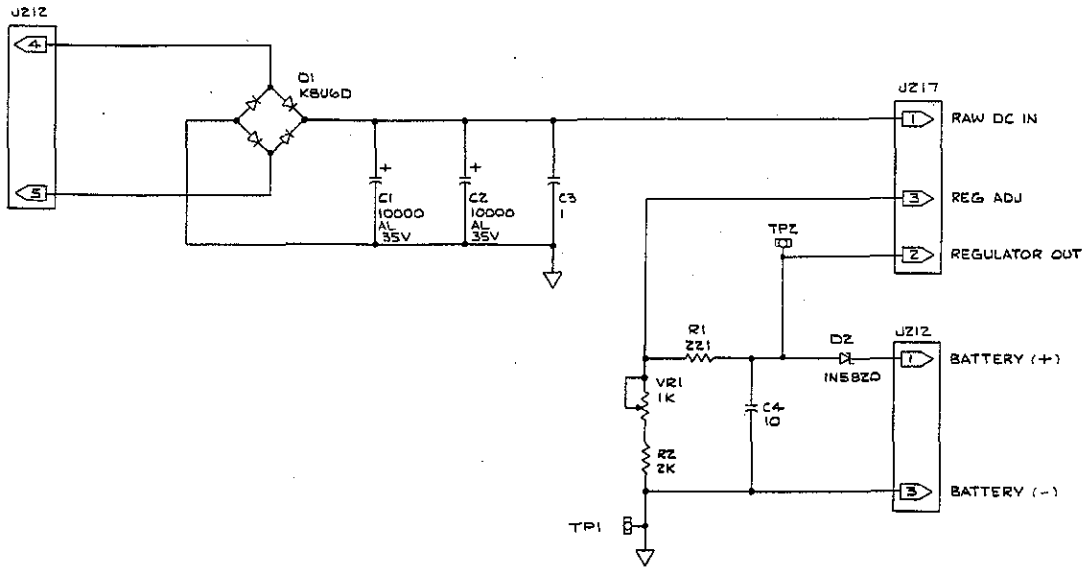

NOTES:

1. UNLESS OTHERWISE SPECIFIED:
   RESISTOR VALUES ARE IN OHMS, 1/4W, 1%
   CAPACITOR VALUES ARE IN MICROFARADS.
2. LAST REF DES USED: J217, C4, R2, VR1, D2, TP2
3. REF DES NOT USED: J209

ECR PENDING

N713 ____ ____

N735 ____ ____

04	N737				
03	N723				
REV	"ECR"	BY/DATE			

SCHEMATIC, MOTHER BOARD MODEL 1260

16JUL 89

D2400-01

NOVAMETRIX MEDICAL SYSTEMS INC.
WALLINGFORD, CT. USA 06492

SIZE	DRAWING NO.	DOC	REV
D	2400	03	04

SHEET 1 OF 2

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BACK PANEL HEADER

P211	J211			J211	P211
1	1	KEY	DAC3	2	2
3	3	DAC1	DAC2	4	4
5	5	SYS GND	SYS GND	6	6
7	7	AGND	AGND	8	8
9	9	A/D 1	A/D 2	10	10
11	11	A/D 3	UNUSED	12	12
13	13	UNUSED	UNUSED	14	14
15	15	DATAIN3	XMITT3	16	16
17	17	RTS3	CTS3	18	18
19	19	COMM GND1	DATA IN4	20	20
21	21	XMITT 4	RTS4	22	22
23	23	CTS4	COMMGND4	24	24

POWER SUPPLY HEADER

P201	J201			J201	P201
A1	A1	SYS GND	SYS GND	B1	B1
A2	A2	SYS GND	SYS GND	B2	B2
A3	A3	SYS GND	SYS GND	B3	B3
A4	A4	RAWDCIN	RAWDCIN	B4	B4
A5	A5	RAWDCIN	RAWDCIN	B5	B5
A6	A6	UNUSED	UNUSED	B6	B6
A7	A7	BATTERY (+)	BATTERY (+)	B7	B7
A8	A8	BATTERY (+)	BATTERY (+)	B8	B8
A9	A9	UNUSED	UNUSED	B9	B9
A10	A10	+5V	+5V	B10	B10
A11	A11	+5V	+5V	B11	B11
A12	A12	+5V	+5V	B12	B12
A13	A13	UNUSED	UNUSED	B13	B13
A14	A14	CRT/FAN +V	CRT/FAN +V	B14	B14
A15	A15	UNUSED	UNUSED	B15	B15
A16	A16	+15V	+15V	B16	B16
A17	A17	+15V	+15V	B17	B17
A18	A18	UNUSED	UNUSED	B18	B18
A19	A19	UNUSED	UNUSED	B19	B19
A20	A20	-15V	-15V	B20	B20
A21	A21	-15V	-15V	B21	B21
A22	A22	UNUSED	UNUSED	B22	B22
A23	A23	UNUSED	UNUSED	B23	B23
A24	A24	POWER SWITCH	UNUSED	B24	B24
A25	A25	PLED HOT	UNUSED	B25	B25
A26	A26	AC LED HOT	UNUSED	B26	B26
A27	A27	UNUSED	UNUSED	B27	B27
A28	A28	UNUSED	BATTERY ON	B28	B28
A29	A29	UNUSED	UNUSED	B29	B29
A30	A30	SYS GND	SYS GND	B30	B30
A31	A31	SYS GND	SYS GND	B31	B31
A32	A32	SYS GND	SYS GND	B32	B32

CRT HEADER

	J213
SYS GND	1
BRIGHTNESS HIGH	2
BRIGHTNESS LOW	3
BRIGHTNESS CENTER	4
UNUSED	5
HSYNC	6
CRT/FAN +V	7
VIDEO	8
VSYNC	9
SYS GND	10

P203	J203	CPU MEMORY BOARD		J203	P203
P205	J205	MAIN CPU BOARD		J205	P205
P207	J207	VIDEO CONTROLLER BOARD		J207	P207
A1	A1	CRT DTACK#	SYS GND	B1	B1
A2	A2	INT#	OE#	B2	B2
A3	A3	ADDR1	SYSTEM RST#	B3	B3
A4	A4	ADDR2	ADDR23	B4	B4
A5	A6	ADDR3	ADDR22	B5	B6
A6	A6	ADDR4	ADDR21	B6	B6
A7	A7	ADDR5	ADDR20	B7	B7
A8	A8	ADDR6	ADDR19	B8	B8
A9	A9	ADDR7	ADDR18	B9	B9
A10	A10	ADDR8	ADDR17	B10	B10
A11	A11	ADDR9	ADDR16	B11	B11
A12	A12	ADDR10	ADDR15	B12	B12
A13	A13	ADDR11	ADDR14	B13	B13
A14	A14	ADDR12	ADDR13	B14	B14
A15	A16	DATA 0	DATA 15	B15	B16
A16	A16	DATA 1	DATA 14	B16	B16
A17	A17	DATA 2	DATA 13	B17	B17
A18	A18	DATA 3	DATA 12	B18	B18
A19	A19	DATA 4	DATA 11	B19	B19
A20	A20	DATA 5	DATA 10	B20	B20
A21	A21	DATA 6	DATA 9	B21	B21
A22	A22	DATA 7	DATA 8	B22	B22
A23	A23	LBRE#	LBWE#	B23	B23
A24	A24	UBRE#	UBWE#	B24	B24
A25	A25	SWITCH 1	SWITCH 5	B25	B25
A26	A26	SWITCH 2	SWITCH 6	B26	B26
A27	A27	SWITCH 3	SWITCH 7	B27	B27
A28	A28	SWITCH 4	UNUSED	B28	B28
A29	A29	LED 1	LED 4	B29	B29
A30	A30	LED 2	LED 5	B30	B30
A31	A31	LED 3	SPARE OUT	B31	B31
A32	A32	R/W#	UNUSED	B32	B32

P202	J202	CPU MEMORY BOARD		J202	P202
P204	J204	MAIN CPU BOARD		J204	P204
P206	J206	VIDEO CONTROLLER BOARD		J206	P206
A1	A1	SYS GND	SYS GND	B1	B1
A2	A2	UNUSED	U44U5 E#	B2	B2
A3	A3	+5V	U24U3 E#	B3	B3
A4	A4	CSU1#	+15V	B4	B4
A5	A5	-15V	A/D CS#	B5	B5
A6	A6	CSU2#	BATTERY (+)	B6	B6
A7	A7	CSU3#	CSU4#	B7	B7
A8	A8	INT2#	INT6#	B8	B8
A9	A9	MUX CS#	DTR2	B9	B9
A10	A10	DTR1	CRT INT#	B10	B10
A11	A11	DATA IN1	DATA IN2	B11	B11
A12	A12	XMITT1	XMITT2	B12	B12
A13	A13	CTS1	CTS2	B13	B13
A14	A14	RTS1	RTS2	B14	B14
A15	A16	DATA IN3	DATA IN4	B15	B15
A16	A16	XMITT3	XMITT4	B16	B16
A17	A17	CTS3	CTS4	B17	B17
A18	A18	RTS3	RTS4	B18	B18
A19	A19	COMM GND1	COMM GND2	B19	B19
A20	A20	VIDEO	BRIGHT HIGH	B20	B20
A21	A21	HSYNC	BRIGHT CENTER	B21	B21
A22	A22	VSYNC	BRIGHT LOW	B22	B22
A23	A23	AGND	AGND	B23	B23
A24	A24	A/D 1	A/D 2	B24	B24
A25	A25	A/D 3	DAC 1	B25	B25
A26	A26	DAC 2	DAC 3	B26	B26
A27	A27	I/O 1	BATTERY ON	B27	B27
A28	A28	SPAN SWITCH	WATCHDOG RST#	B28	B28
A29	A29	ZERO SWITCH	I/O 7	B29	B29
A30	A30	I/O 4	I/O 8	B30	B30
A31	A31	SPEAKER (+)	ACRTC CS#	B31	B31
A32	A32	UNUSED	DAC 4	B32	B32

POWER HEADER

	J212	P212	
BATTERY (+)	1	1	BATTERY (+)
CRT/FAN +V	2	2	FAN (+)
SYS GND	3	3	BATTERY (-)
AC IN	4	4	
AC IN	5	5	
SYS GND	6	6	FAN (-)
SYS GND	7	7	SPEAKER (-)
SPEAKER (+)	8	8	SPEAKER (+)

3 TERMINAL REGULATOR HEADER

	J217	P217	
RAW DC	1	1	VIN
REGULATOR OUT	2	2	VOUT
ADJ	3	3	ADJ

MOTHER BOARD GROUND CONNECTIONS

- AGND
- AGND1
- AGND2
- AGND3
- AGND4
- SYS GND
- SHIELD
- COMM GND1
- COMM GND2

P1	J208	FRONT END BOARD (CTC)		J208	P1
P209	J209	UNUSED		J209	P209
P210	J210	UNUSED		J210	P210
A1	A1	AGND1	UNUSED	B17	B17
A2	A2	DATA OUT	UNUSED	B18	B18
A3	A3	V8 DATA	+5V	B19	B19
A4	A4	V8	UNUSED	B20	B20
A5	A5	SIGNAL 10	INT1#	B21	B21
A6	A6	SIGNAL 13	INT2#	B22	B22
A7	A7	AGND2	INT3#	B23	B23
A8	A8	SIGNAL 16	DTR2	B24	B24
A9	A9	SIGNAL 19	DTR1	B25	B25
A10	A10	SIGNAL 22	SYSTEM RST#	B26	B26
A11	A11	SIGNAL 25	A/D 2	B27	B27
A12	A12	HEATER CONTROL	UNUSED	B28	B28
A13	A13	SIGNAL 31	DAC2	B29	B29
A14	A14	UNUSED	I/O 2	B30	B30
A15	A15	UNUSED	BATTERY ON	B31	B31
A16	A16	SHIELD	I/O 8	B32	B32
A17	A17	UNUSED	AGND1	C1	C1
A18	A18	+5V	SIGNAL 3	C2	C2
A19	A19	UNUSED	T2	C3	C3
A20	A20	+15V	HEATER	C4	C4
A21	A21	UNUSED	BOOST	C5	C5
A22	A22	DATA IN1	SOURCE	C6	C6
A23	A23	XMITT1	AGND4	C7	C7
A24	A24	S/H RESET	SIGNAL 18	C8	C8
A25	A25	CTS1	SIGNAL 21	C9	C9
A26	A26	UNUSED	SIGNAL 24	C10	C10
A27	A27	A/D 1	SIGNAL 27	C11	C11
A28	A28	UNUSED	SIGNAL 30	C12	C12
A29	A29	DAC1	SIGNAL 33	C13	C13
A30	A30	I/O 1	UNUSED	C14	C14
A31	A31	I/O 4	UNUSED	C15	C15
A32	A32	I/O 7	SHIELD	C16	C16
B1	B1	AGND1	UNUSED	C17	C17
B2	B2	REF OUT	-15V	C18	C18
B3	B3	V8 REF	UNUSED	C19	C19
B4	B4	SIGNAL 8	RAW DC	C20	C20
B5	B5	SIGNAL 11	UNUSED	C21	C21
B6	B6	SIGNAL 14	DATA IN2	C22	C22
B7	B7	AGND3	XMITT2	C23	C23
B8	B8	SIGNAL 17	RTS2	C24	C24
B9	B9	SIGNAL 20	CTS2	C25	C25
B10	B10	SIGNAL 23	UNUSED	C26	C26
B11	B11	SIGNAL 26	A/D 3	C27	C27
B12	B12	SIGNAL 29	UNUSED	C28	C28
B13	B13	SIGNAL 32	DAC3	C29	C29
B14	B14	UNUSED	I/O 3	C30	C30
B15	B15	UNUSED	I/O 6	C31	C31
B16	B16	SHIELD	I/O 9	C32	C32

TRANSDUCER HEADER

P216	J216			J216	P216
1	1	DATA OUT	SIGNAL 16	2	2
3	3	REF OUT	SIGNAL 17	4	4
5	5	SIGNAL 3	SIGNAL 18	6	6
7	7	V8 DATA	SIGNAL 19	8	8
9	9	V8 REF	SIGNAL 20	10	10
11	11	T2	SIGNAL 21	12	12
13	13	V8	SIGNAL 22	14	14
15	15	SIGNAL 8	SIGNAL 23	16	16
17	17	HEATER	SIGNAL 24	18	18
19	19	SIGNAL 10	SIGNAL 25	20	20
21	21	SIGNAL 11	SIGNAL 26	22	22
23	23	BOOST	SIGNAL 27	24	24
25	25	SIGNAL 13	HEATERCONTROL	26	26
27	27	SIGNAL 14	SIGNAL 29	28	28
29	29	SOURCE	SHIELD	30	30
31	31	AGND 1	AGND 2	32	32
33	33	AGND 3	AGND 4	34	34
35	35	+5V	-15V	36	36
37	37	+15V	-15V	38	38

CAL CELL HEADER

P215	J215			J215	P215
1	1	I/O 1	UNUSED	2	2
3	3	SPAN SWITCH	I/O 6	4	4
5	5	ZERO SWITCH	I/O 7	6	6
7	7	I/O 4	SYS GND	8	8
9	9	+5V	-15V	10	10
11	11	+15V	KEY	12	12
13	13	UNUSED	UNUSED	14	14

FRONT PANEL HEADER

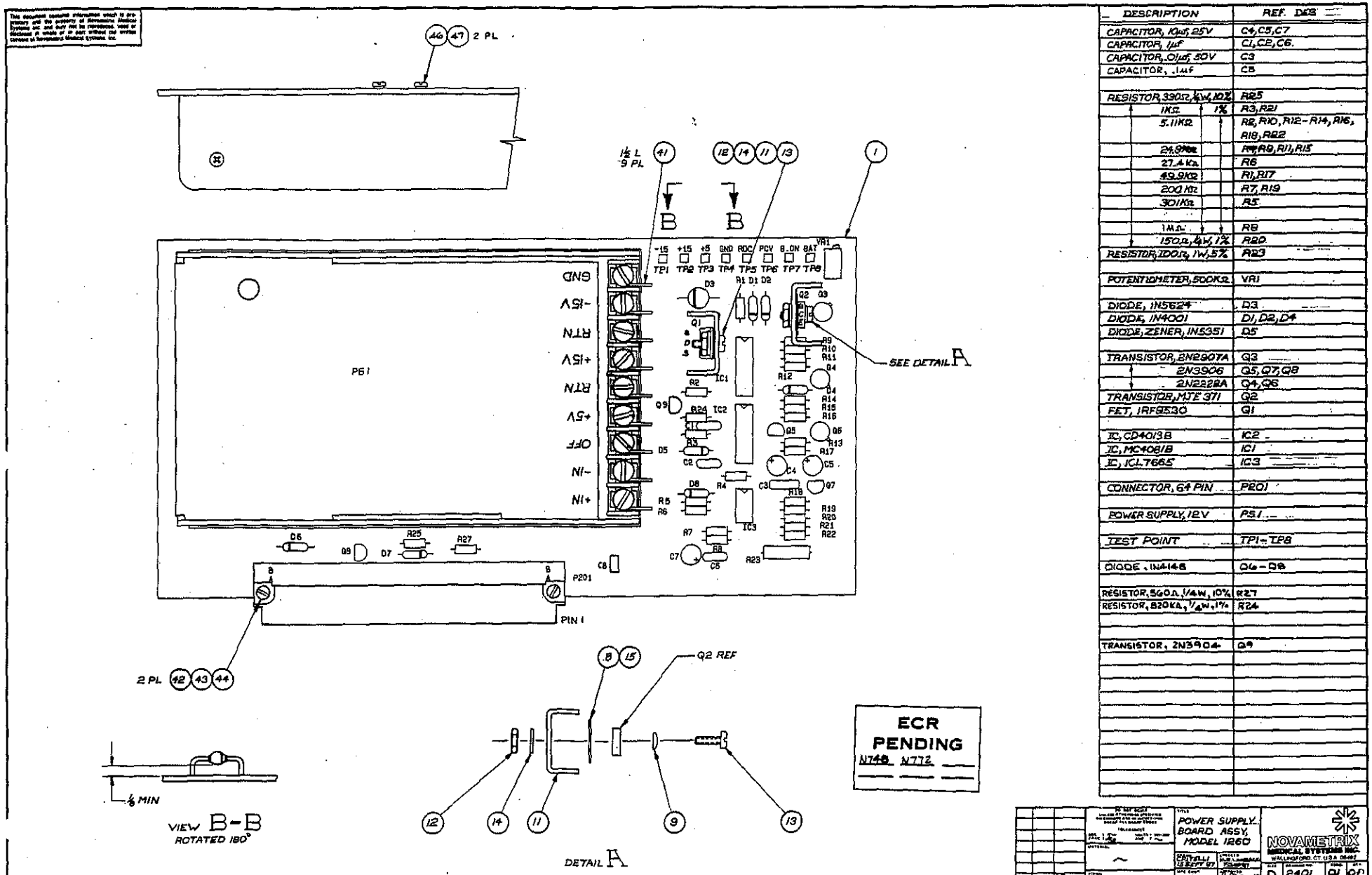
	P221	P214	J214		J214	P214	P221
	1	1	1	SWITCH 1	SWITCH 5	2	2	2
	3	3	3	SWITCH 2	SWITCH 6	4	4	4
	5	5	5	SWITCH 3	SWITCH 7	6	6	6
	7	7	7	SWITCH 4	POWER SWITCH	8	8	8
(2 MIN)	9	9	9	LED 1	LED 4	10	10	10
(AUDIO OFF)	11	11	11	LED 2	LED 5	12	12	12
(ALERT RESET)	13	13	13	LED 3	PLED HOT	14	14	14
	15	15	15	AC LED HOT	+5V	16	16	16
	17	17	17	SYS GND	KEY	18	18	18
	19	19	19	UNUSED	UNUSED	20	20	20

ECR PENDING
N713 N738

MOTHER BOARD

TITLE	SCHEMATIC, MOTHER BOARD MODEL 1260		
SIZE	D	DRAWING NO.	2400
REV	03	SHEET	04
MATERIAL	N/A	APPROVED	A.G.
NEXT ASSY	07490-01	USED ON	NONE

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT, U.S.A. 06492



DESCRIPTION	REF. DES
CAPACITOR, 10µF, 25V	C4, C5, C7
CAPACITOR, 1µF	C1, C2, C6
CAPACITOR, .01µF, 50V	C3
CAPACITOR, .1µF	C8
RESISTOR, 330Ω, 1/4W, 10%	R25
1KΩ, 1%	R3, R21
5.11KΩ, 1%	R2, R10, R12-R14, R16, R18, R22
24.9KΩ, 1%	R4, R9, R11, R15
27.4KΩ, 1%	R6
49.9KΩ, 1%	R1, R17
200KΩ, 1%	R7, R19
301KΩ, 1%	R5
1MΩ, 1%	R8
150Ω, 1/4W, 1%	R20
RESISTOR, 100Ω, 1W, 5%	R23
POTENTIOMETER, 500KΩ	VR1
DIODE, 1N5624	D3
DIODE, 1N4001	D1, D2, D4
DIODE, ZENER, 1N5351	D5
TRANSISTOR, 2N2907A	Q3
2N3906	Q5, Q7, Q8
2N2222A	Q4, Q6
TRANSISTOR, MTF 371	Q2
FET, IRF9530	Q1
IC, CD4013B	IC2
IC, MC4081B	IC1
IC, ICL7665	IC3
CONNECTOR, 64 PIN	P201
POWER SUPPLY, 12V	PS1
TEST POINT	TP1-TP8
DIODE, 1N4148	D6-D8
RESISTOR, 560Ω, 1/4W, 10%	R27
RESISTOR, 820KΩ, 1/4W, 1%	R24
TRANSISTOR, 2N3904	Q8

ECR PENDING
N748 N772

01	M123				
			POWER SUPPLY BOARD ASSY, MODEL 1260	NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492	
				D 2401	01 01

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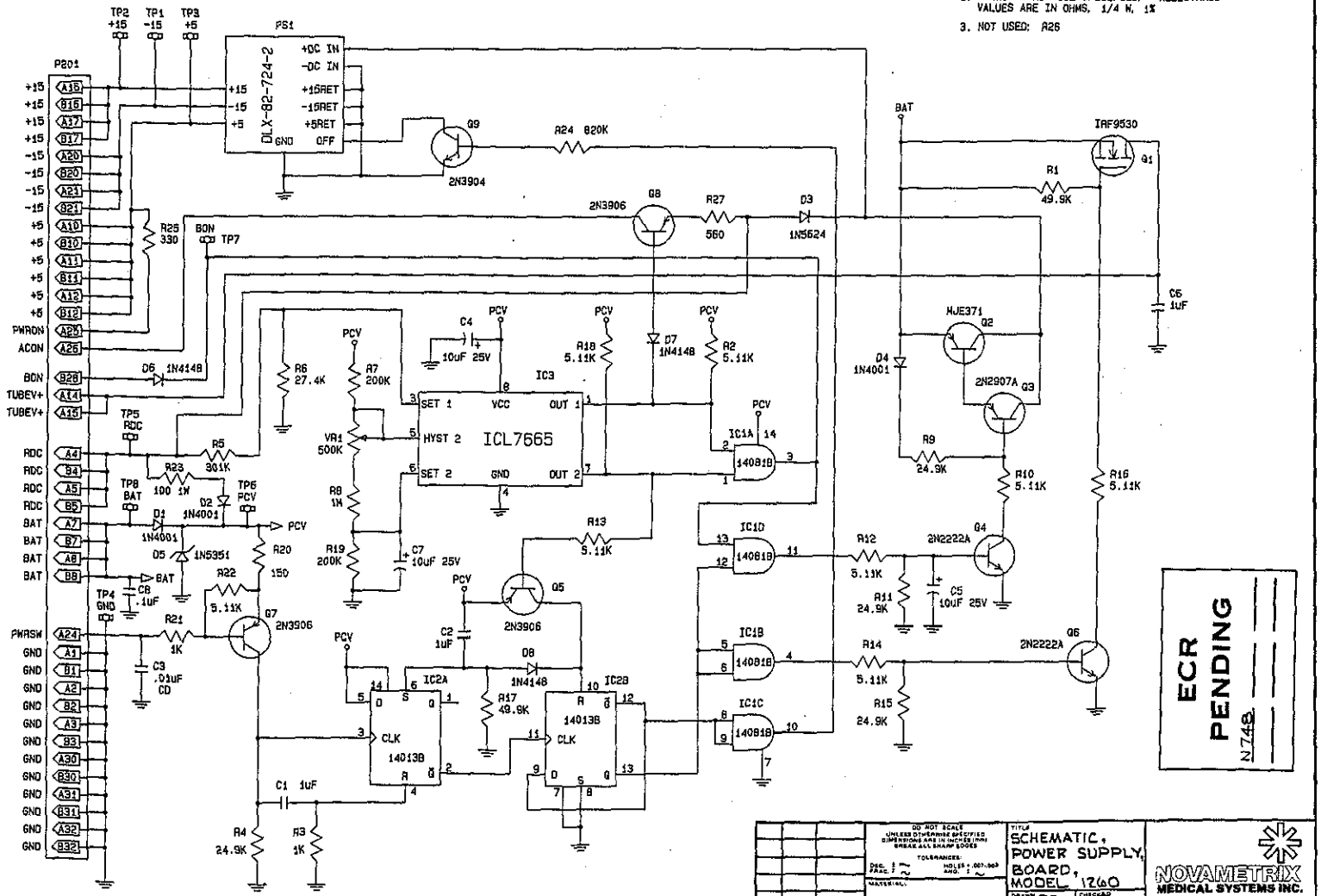
NOTES: 1. LAST REF DES USED: C8, D8, IC3, P201, PS1, Q9, R27, TP8, VR1
2. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, 1/4 W, 1%
3. NOT USED: R26



01	N123	CS	18MAR88		
REV.	"N" NO.	BY	DATE		

DO NOT SCALE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [mm] BREAK ALL SHARP EDGES
TOLERANCES: FRAC. ± ~ HOLES ± .001 [.063] ANG. ± ~
MATERIAL ~
FINISH ~

TITLE: SCHEMATIC, POWER SUPPLY, BOARD, MODEL 1260
DRAWN DS 18MAR88
CHECKED
MFG. ENGR. DW
APPROVED
USED ON 0240I-01

NOVAMETRIX MEDICAL SYSTEMS INC.
WALLINGFORD, CT. U.S.A. 06492

SIZE	DRAWING NO.	CODE	REV.
C	2401	03	01

SCALE ~ SHEET 1 OF 1

MILFORD BLUEPRINT INC.

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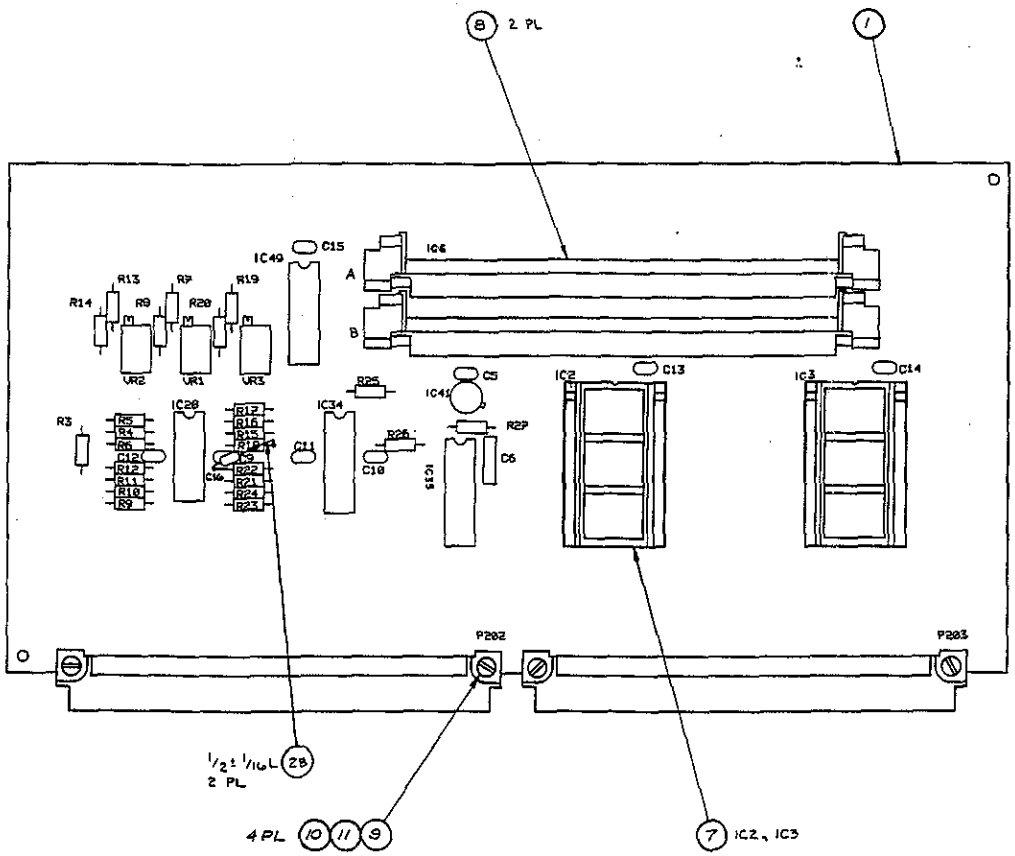

DESCRIPTION	REF DES.
CAPACITOR, 100pf, 500V	C6
CAPACITOR, .01uf, 50V	C5
CAPACITOR, .1uf, 16V	C9-C16
RESISTOR, 1KΩ, ¼W, 10%	R26
6.91KΩ 1%	R6, R12, R15
10KΩ	R5, R11, R17, R23
20KΩ	R3, R4, R9, R10, R15, R16
64.9KΩ	R24
121KΩ	R27
35.2KΩ	R8, R14, R20
27.4KΩ	R7, R13, R19
RESISTOR, 1.21KΩ, ¼W, 1%	R25
RESISTOR, 1MΩ, ¼W, 1%	R21, R22
POTENTIOMETER, 20KΩ	VR1-VR3
CONNECTOR, 64 PIN	P202, P203
IC, DG212CJ	IC34
74HCT173	IC49
MP7574	IC35
TL074CN	IC28
IC, AD584JN	IC41

2nd
ECR PENDING
N772

03	N137	
02	N125	
01	N104	

CPU MEMORY BOARD ASSEMBLY, MODEL 1260

NOVAMETRIX MEDICAL SYSTEMS INC.
WALLINGFORD, CT. U.S.A.

D 2402 01 03

SCALE 2/1

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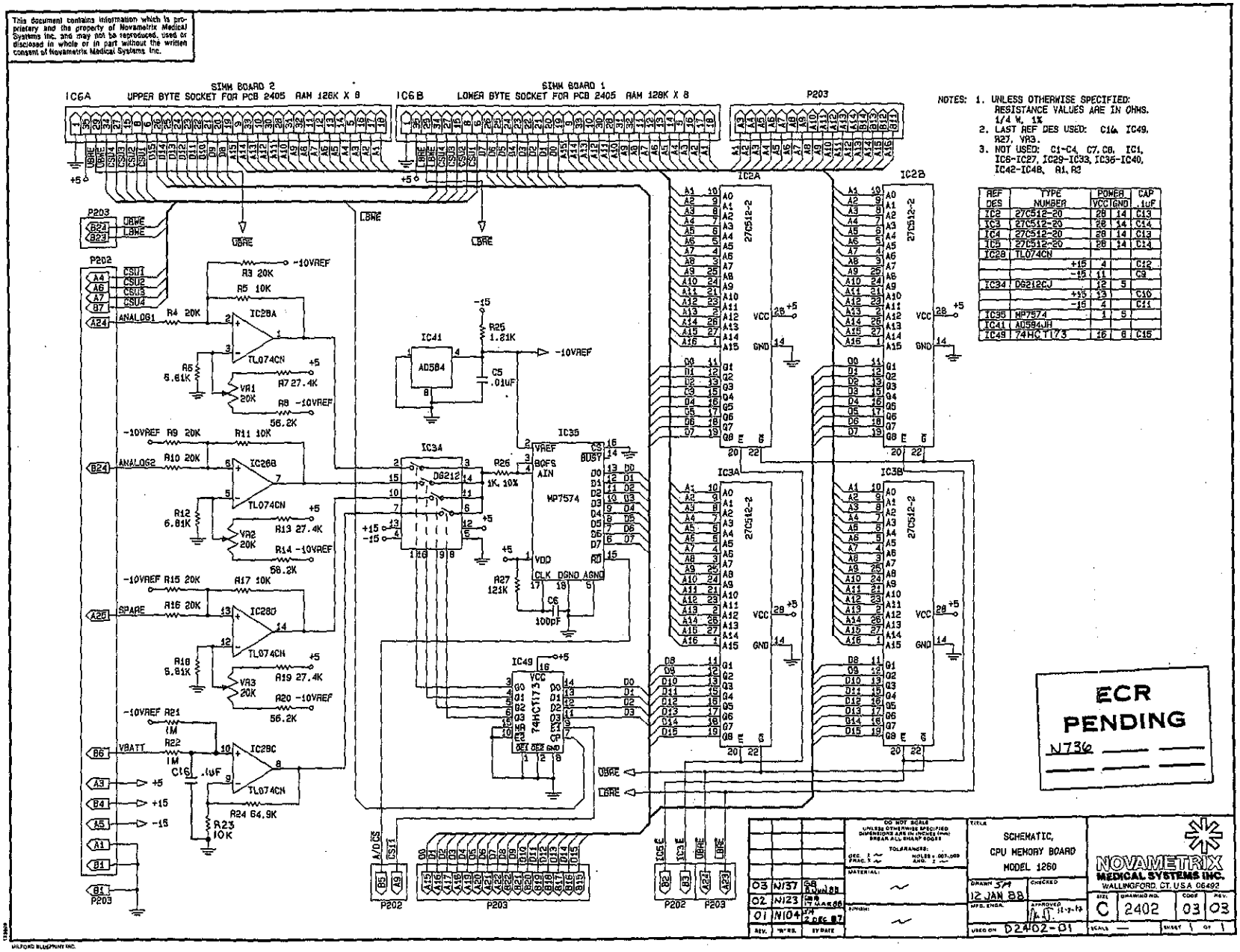

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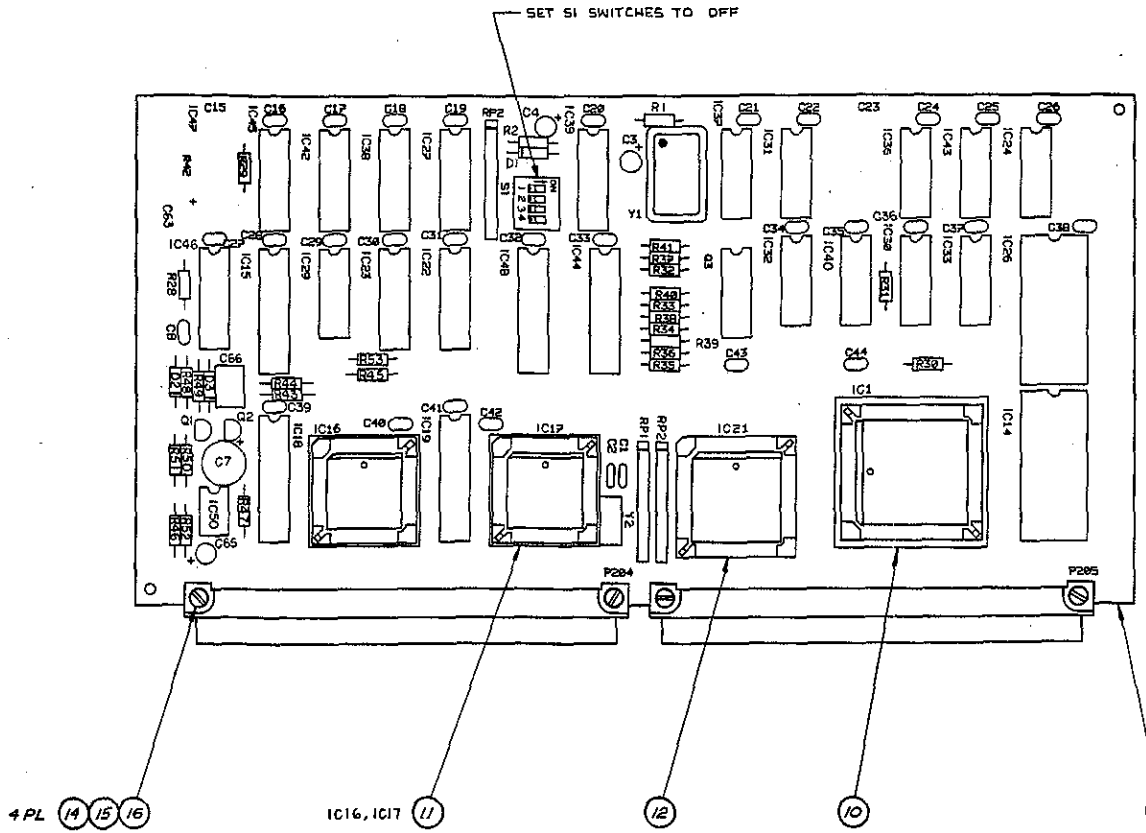
NOTES:
1. THE FOLLOWING COMPONENTS ARE NOT USED C15, C63, R42, IC47, C23



DESCRIPTION	REF DES
CAPACITOR, 10µF, 25V	C3, C4, C65
100µF, 10V	C7
68pF, 500V	C66
.1µF	C8, C16-C22, C24-C44
CAPACITOR, 20pF	C1, C2
DIODE, IN4148	D1, D2, D3
RESISTOR, 100KΩ, ¼W, 10%	R1, R2
10Ω 1%	R28, R50
499Ω	R37-R41
3.32KΩ	R29, R32-R36
10KΩ	R30, R31
5.11KΩ	R51
475KΩ	R49
200KΩ	R48
49.9Ω	R46
100KΩ	R47
24.9KΩ, ¼W, 1%	R52
RESISTOR, 5.6KΩ, ¼W, 10%	R43-R45, R53
RESISTOR PACK 10KΩ	RP1-RP3
IC, TLC272CP	IC50
IC, MAX233	IC18, IC19
AD7226KN	IC15
MX055GA-2C-16	Y1
MK68230Q-8	IC21
R68C558J3	IC16, IC17
MK48T02B-15	IC14
HD68HC000CP-8	IC1
74F139	IC22
74F138	IC23
74F32	IC24, IC31-IC33
74F244	IC48
74F08	IC29, IC30
74F04	IC36
74F74	IC37
74F00	IC43
74F161A	IC38, IC45
74HCT221	IC39
74F10	IC40
74F374	IC44
74F173	IC42
74F148	IC27
SN76496N	IC46
IC, 74LS154N	IC26
TRANSISTOR, 2N3906	Q2
TRANSISTOR, 2N3904	Q1
TRANSISTOR ARRAY, CA3046E	Q3
CRYSTAL, 3.6864 MHz	Y2
CONNECTOR, 64 PIN	P204, P205
SWITCH, 4 POSITION	S1

ECR PENDING
N772 N798

03	N123	
02	N104	
01	N104	

MAIN CPU BOARD ASSY MODEL 1260

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT, U.S.A. 06492

D 2403 01 02

SCALE 2/1 SHEET 1 OF 1

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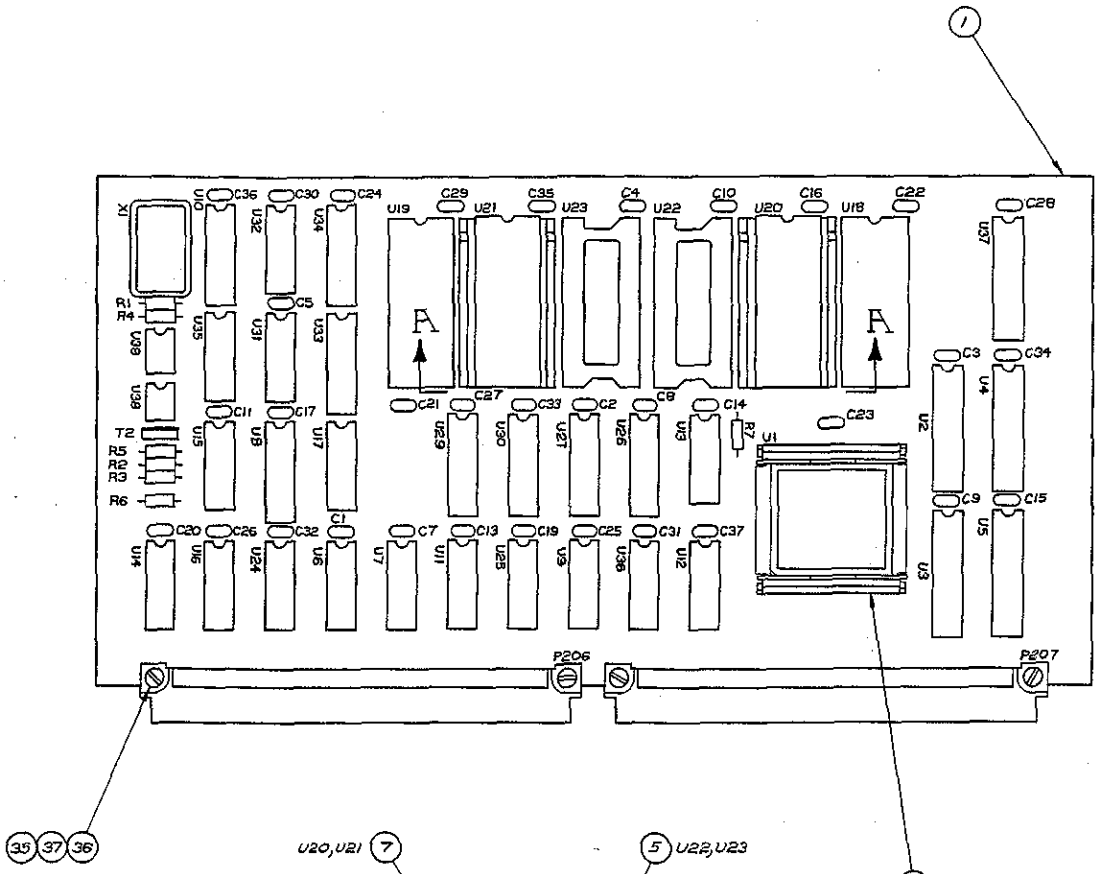
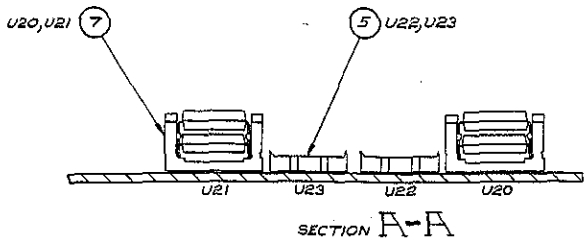




SECTION A-A

DESCRIPTION	REF DES
CAPACITOR, .1μf	C1-C5,C7-C11,C13-C17 C19-C37
RESISTOR, 1KΩ, ¼W, 1%	R1,R4,R6
10KΩ	R7
49.9KΩ	R5
100KΩ	R3
RESISTOR, 1MΩ, ¼W, 1%	R2
IC, HD63484-8	U1
MX0555GA-2C-20	X1
74F138	U8
74F32	U16,U36
74F08	U6,U7
74F04	U24,U25,U35
74F74	U9
74F00	U11,U12
74F10	U13,U14
74F374	U4,U5
74F373	U2,U3
74F163A	U10
74F11	U15
74F27	U17
74F166	U26,U27,U29,U30
74F164	U31,U32
74F151	U33,U34
74F273	U37
TLC271CP	U39
4N38A	U38
IC, HM62256LP-15	U18,U19,U20(2),U21(2)
CONNECTOR, 64 PIN	P206,P207
TRANSISTOR, 2N4919	T2

ECR PENDING

N772

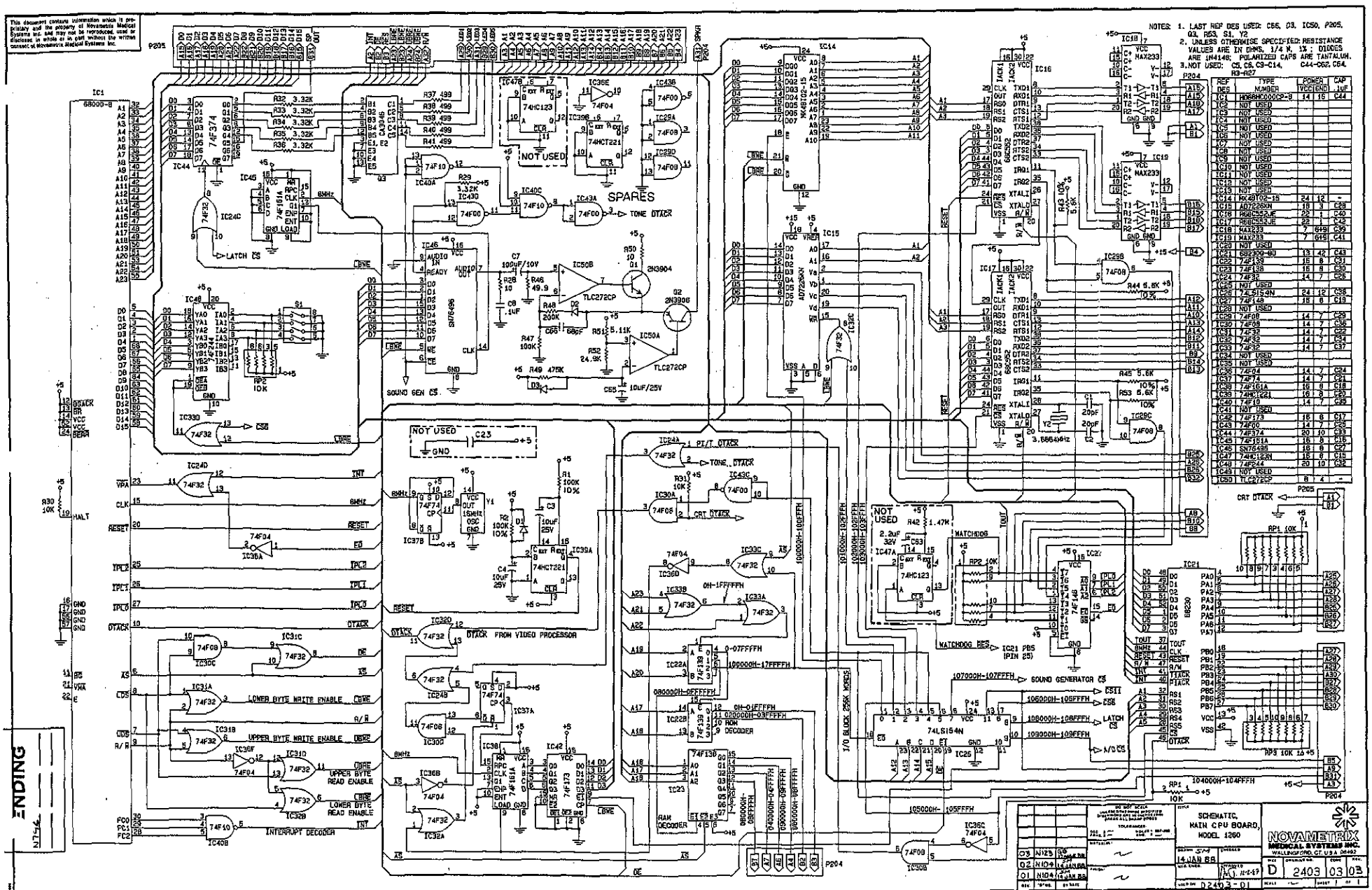
REV	DESCRIPTION	BY	DATE
02	N123		
01	N95		

VIDEO CONTROLLER BOARD ASSY MODEL 1260

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492

SIZE D | DRAWING NO. 2404 | CODE 01 | REV 02

SCALE 2/1 | SHEET 1 OF 1


NOTES: 1. LAST REF DES USED: C66, D3, IC50, P205, Q3, R93, S1, Y2
2. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, 1/4 W, 1% ; DIODES ARE 1N4148; POLARIZED CAPS ARE TANTALUM.
3. NOT USED: C5, C6, C9-C14, C44-C62, C64, R3-R27
NOT USED
SPARES
TONE DTACK
SOUND GEN CS
LATCH CS
LOWER BYTE WRITE ENABLE
UPPER BYTE WRITE ENABLE
UPPER BYTE READ ENABLE
LOWER BYTE READ ENABLE
INTERRUPT DECODER
DTACK FROM VIDEO PROCESSOR
WATCHDOG RES
SOUND GENERATOR CS
I/O BLOCK 256K WORDS
RAM DECODER
ROM DECODER
SCHEMATIC, MAIN CPU BOARD, MODEL 1260
NOVAMETRIX MEDICAL SYSTEMS INC.
WALLINGFORD, CT, U.S.A.
D 2403 03 03
D2403-01
14 JAN 88

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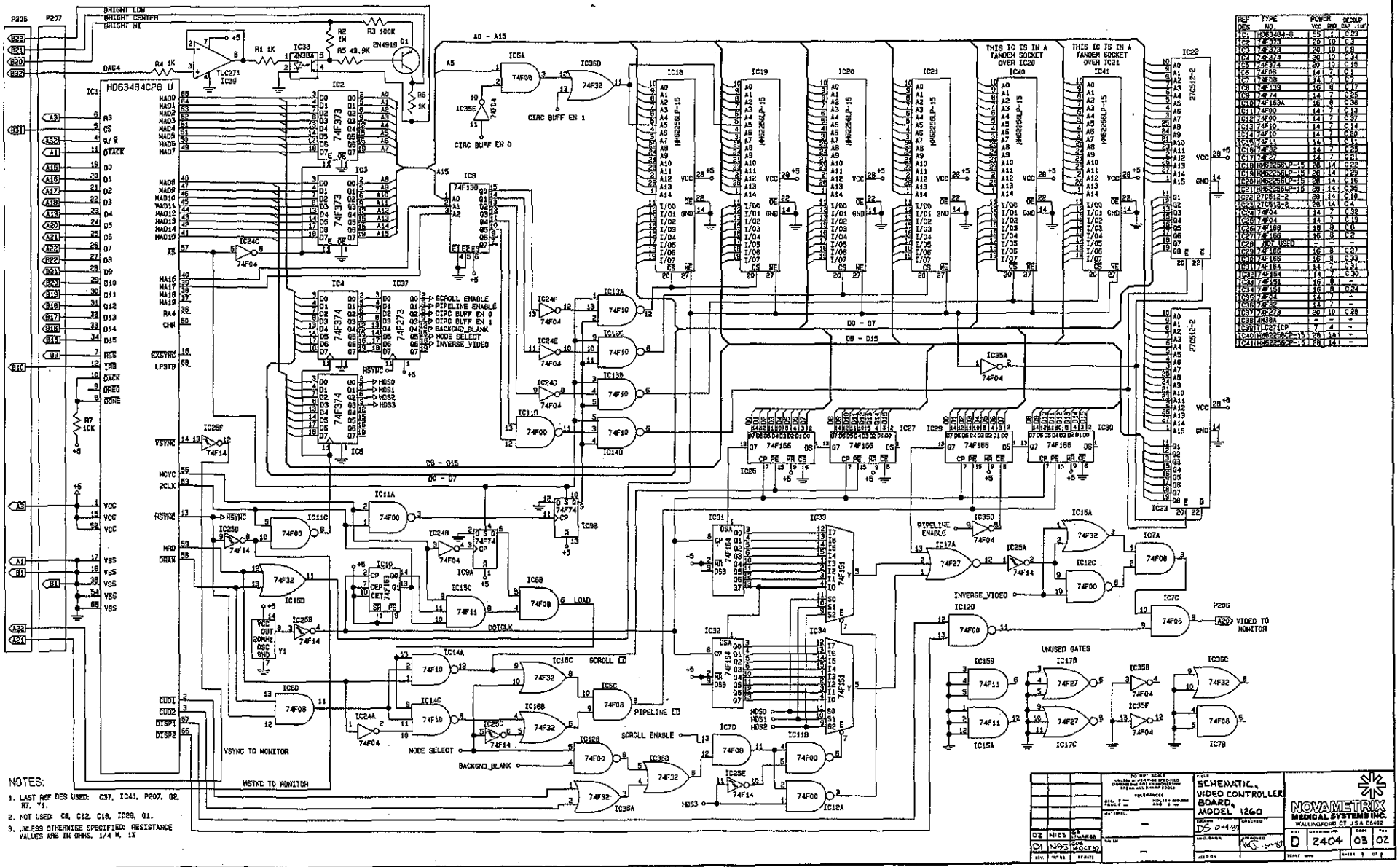
BRIGHT LOW
BRIGHT CENTER
BRIGHT HI
HD63484CP8 U
TLC271
2N4919
74F373
74F374
74F273
74F139
74F08
74F10
74F00
74F32
74F14
74F04
74F11
74F27
74F32
74F166
74F151
74F74
74F153
74F157
74F86
74F175
74F244
74F245
74F04
74F14
74F08
74F00
74F32
74F11
74F27
74F04
74F08
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74F14

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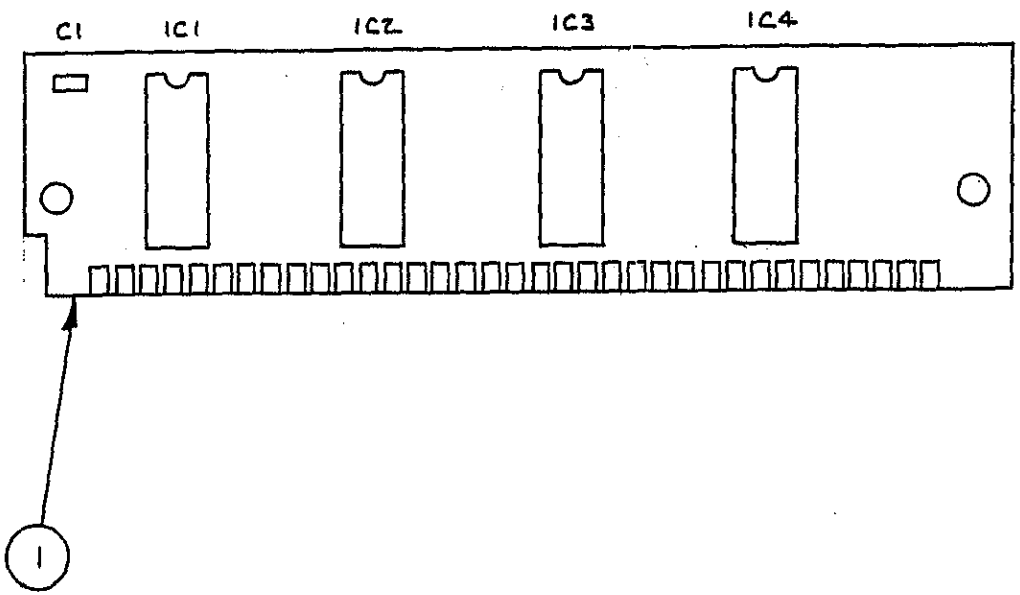
DESCRIPTION	REF DES
CAPACITOR, .1uF, 50V	C1
IC, SRM20256LM12	IC1 - IC4



2nd
ECR PENDING
N762

ECR PENDING
N712

REV.	"R" NO.	BY DATE
03	N137	GB 8JUN88
02	N123	GB 17MAR88
01	N123	GB 17MAR88

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES BREAK ALL SHARP EDGES
TOLERANCES:
DEC. ± ~ FRAC. ± ~ HOLES +.003-.003 ANG. ± ~
MATERIAL: ~
FINISH: ~

TITLE: RAM SIMM BOARD ASSY, MODEL 1260

DRAWN M.R.LINEBACK 9SEP87 | CHECKED GOB 21SEP87
MFG ENGR | APPROVED
USED ON 1260

NOVAMETRIX MEDICAL SYSTEMS, INC.
WALLINGFORD, CT U.S.A. 06492

SIZE	DRAWING NO.	CODE	REV.
B	2405	01	03

SCALE 2/1 | SHEET 1 OF 1

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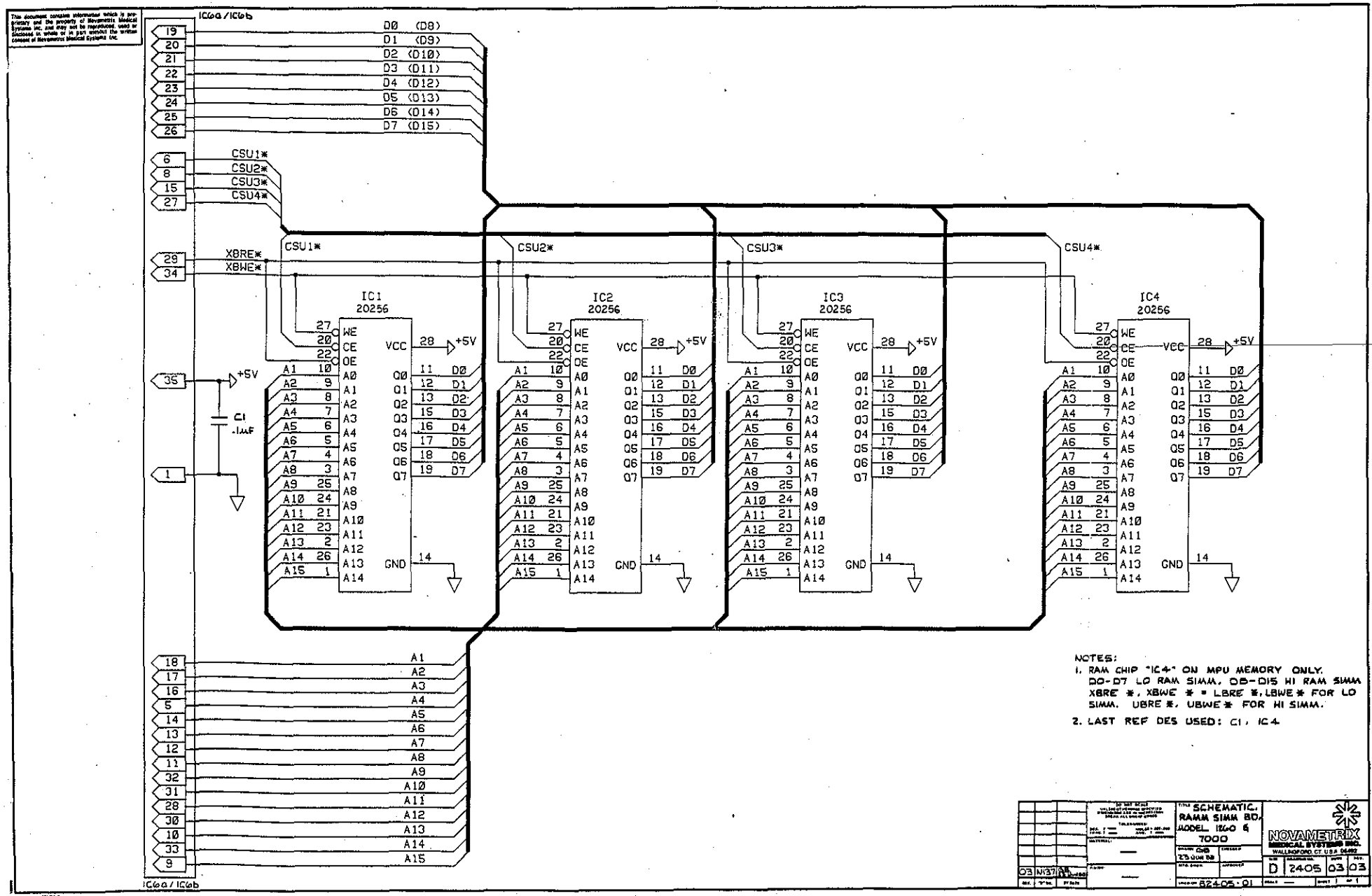

NOTES:
1. RAM CHIP "IC4" ON MPU MEMORY ONLY. D0-D7 LO RAM SIMM, D8-D15 HI RAM SIMM XBRE*, XBWE* = LBRE*, LBWE* FOR LO SIMM. UBRE*, UBWE* FOR HI SIMM.
2. LAST REF DES USED: C1, IC4

			TITLE SCHEMATIC, RAMM SIMM 8D, MODEL 1260 & 7000	NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT U.S.A. 06492
			DRAWN GAB 23 JUN 88	
03	M137	88		D 2405 03 03
			624-05-01	

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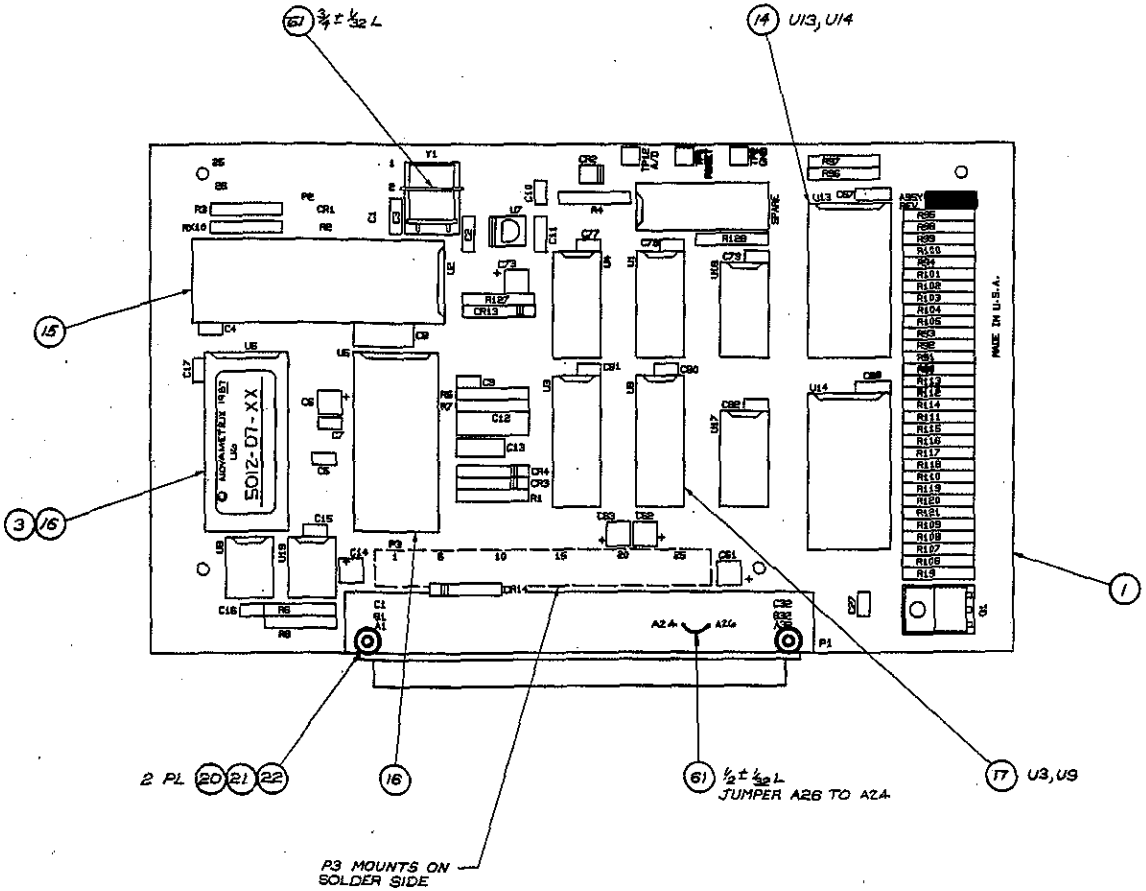
DESCRIPTION	REF DES
PROGRAM, 85012-07	U6



DESCRIPTION	REF DES
RESISTOR, 1Kn, 4W, 1%	R5
1.96Kn,	R105, R121
3.32Kn,	R103, R119
4.02Kn,	R102, R118
6.04Kn,	R99, R115
8.06Kn,	R96, R112
10Kn,	R6, R19, R93, R109
10.7Kn,	R92, R108
11.5Kn,	R91, R107
12.1Kn,	R90, R106
100Kn,	R127
56.2K,	R7
2.61Kn,	R104, R120
4.64Kn,	R101, R117
5.36Kn,	R100, R116
6.65Kn,	R98, R114
7.32Kn,	R97, R113
8.87Kn,	R95, R111
9.31Kn, 1%	R94, R110
700n, 5%	R8
1.5Kn, 10%	R4
RESISTOR, 22Kn, 4W, 5%	R1, R3, RX10, R128
CAPACITOR, 22µF 25V, TANT	C61, C62, C63
10µF, 25V, TANT	C5, C14, C73
1µF	C11
15µF	C2, C3
CAPACITOR, .1µF	C4, C5, C7, C9, C10, C15, C16 C17, C27, C67, C68, C77-C82
CAP, 2200pF, 2%, POLY	C8
CAP, 560pF, 2%, POLY	C19
CAP, 3900pF, 2%, POLY	C12
DIODE, IN4148	CR3, CR4
DIODE, IN6270	CR13
DIODE, IN4001	CR14
LED, MV54B	CR2
IC, 74HC32	U12
HDG3780IVOP	U2
CD4067BE	U15, U16
MC14053	U1
AD7582KN	U6
74HC138	U4
74HC00	U17
LM320LZ	U7
TL072	U19
REF02	U8
IC, 74HC273	U3, U9
CONNECTOR, 96 PIN	P1
CONNECTOR, 25 PIN	P3
TRANSISTOR, IRF523	Q1
TEST POINT	TP1, TP2, TP12
CRYSTAL, 2.4576MHz	Y1

03	N/R		
02	N/R		
01	N/A		

TITLE: FRONT END BD ASSY (CC), MODEL 1260

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A.

D | 2407 | 01 | 03

SCALE 2/1

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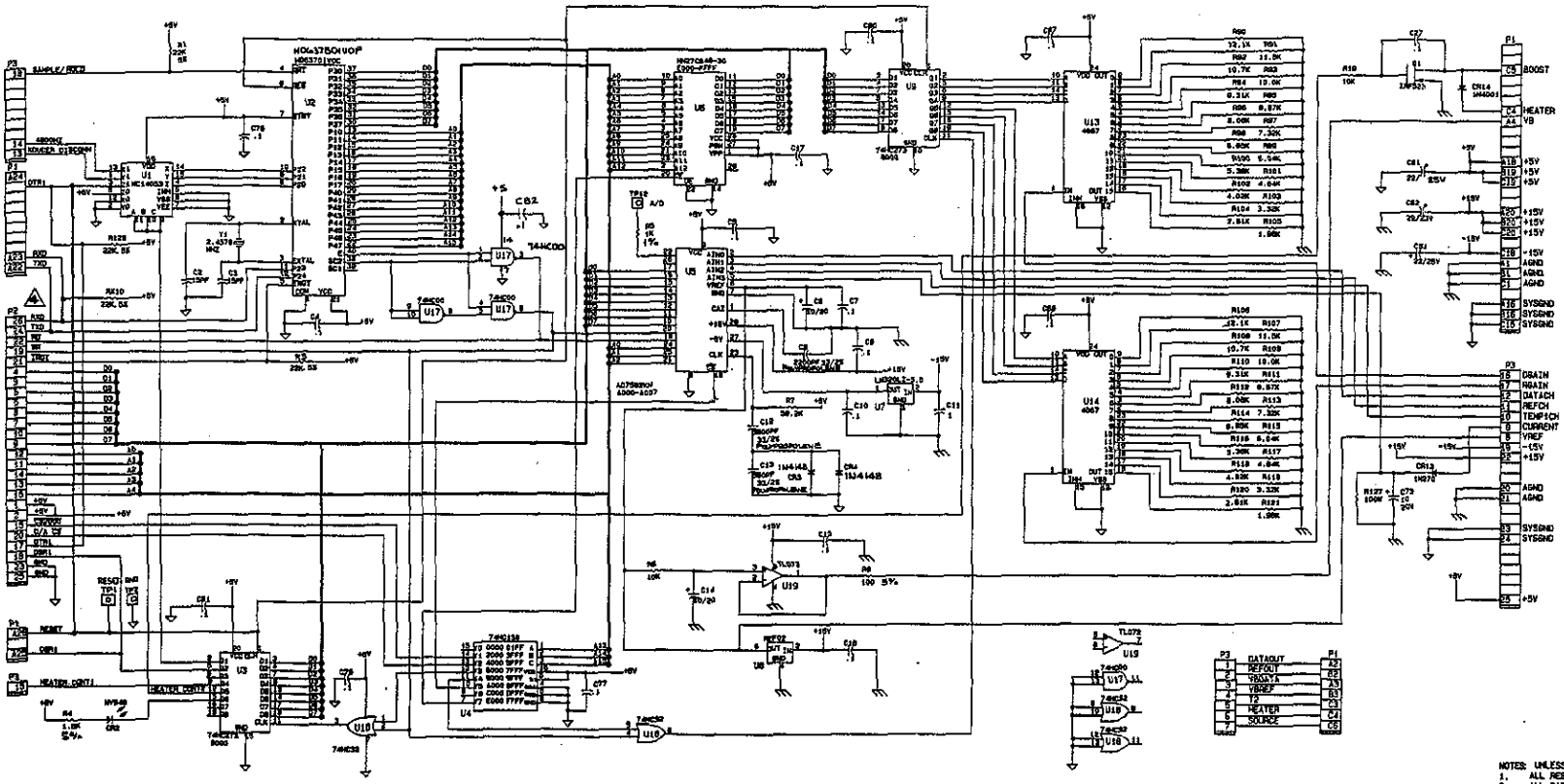
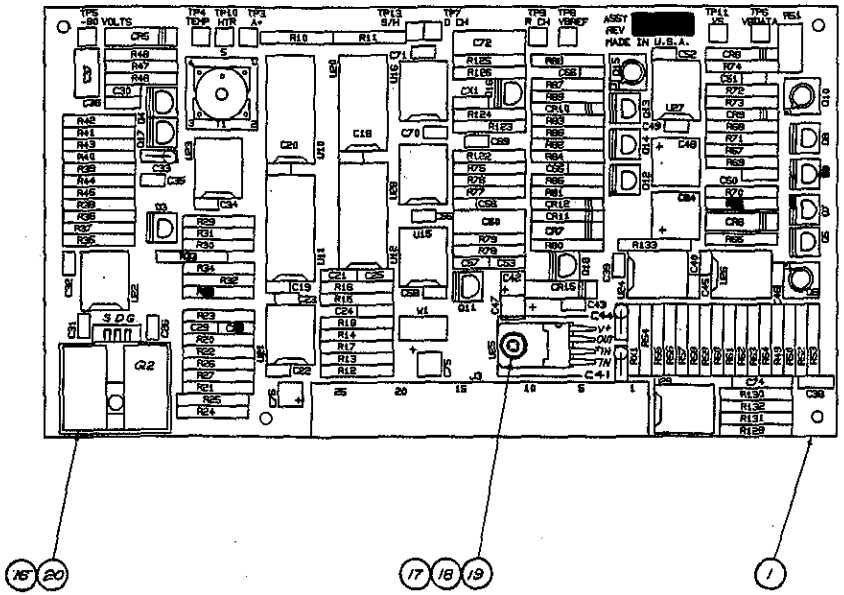


NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS IN OHMS, 1K, 1/4W.
2. ALL CAPACITORS IN MICROFARADS, 50V, 10%.
3. ⏚ DIGITAL GND ⏚ ANALOG GND

⚠ CONNECTOR P2 NOT USED, SHOWN FOR FUTURE USE.

03	M123	1/8		SCHEMATIC, FRONT END BD (CTC), MODEL 1260	NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492
02	M95	SDC			
01	M94	SDC			
REV.		BY DATE			D 2407 03 08



DESCRIPTION	REF DES
TRANSISTOR, 2N5401	Q7,Q9,Q12,Q14
2N5551	Q3,Q8,Q13
2N4393	Q6,Q10,Q15
VN10KM	Q4,Q11,Q16,Q17
IRF523	Q2
J270	Q5
TRANSISTOR, VP0808M	Q18
IC, CD4018	U11
CD4017	U12
74HC138	U10
LM393	U23,U29
TL072	U21,U22,U24,U26-U28
LF 398	U15,U16
74HCU04	U20
IC, UA759	U25
TEST POINT	TP3-TP11,TP13
CONNECTOR, 25 PIN	J3

DESCRIPTION	REF DES
RESISTOR, 499Ω, ¼W, 1%	R17, R124
1.5KΩ, 1%	R27
1KΩ, 1%	R18
100Ω, 10%	R38, R44, R48
1Ω, 5%	R60
1KΩ, 5%	R10, R11, R15, R24, R26, R29 R39, R47, R57, R58, R65 R75, R78, R80, R122, R126
22KΩ, 5%	R32
2KΩ, 1%	R66, R81
4.99KΩ, 1%	R12, R13
5.11KΩ, 1%	R14, R21, R49, R50
10KΩ, 1%	RX1, R25, R33, R36, R37, R34 R40, R52, R54, R68, R70 R74, R83, R85, R88, R133
20KΩ, 1%	R35, R41, R42, R89, R132
21.5KΩ, 1%	R17
33.2KΩ, 1%	R130
80.6KΩ, 1%	R55, R56
100KΩ, 1%	R45, R53
200KΩ, 1%	R64, R76, R123
1MΩ, 1%	R73, R79, R89, R125
3.01KΩ, 1%	R31
178KΩ, 1%	R69, R84
324KΩ, 1%	R46
3.48KΩ, 1%	R26
562KΩ, 1%	R72, R87
3.3MΩ, 1%	R131
39.2KΩ, 1%	R43
61.9KΩ, 1%	R71, R86
16.9KΩ, 1%	R30
28.7KΩ, 1%	R67, R82
10KΩ, 1%	R62, R63
RESISTOR, 20KΩ, ¼W .1%	R59, R61
CAPACITOR, .001μF, MYLAR	C33, C41, C44
6.8μF, 35V	C47, C75, C76
22μF, 100V	C48, C64
470pF	C56, C69
1μF	CX1, C30, C36, C53, C57 C24, C42
47μF, 50V	C50, C65
.1μF	C18-C23, C26, C31, C32 C34, C35, C38-C40, C43 C45, C46, C49, C52, C55 C58, C70, C71
.47μF	C37
3900pF	C60, C72
3μF, 100V	C74
CAPACITOR, 100μF, 100V	C51, C66
DIODE, IN4746A, 18V	CR15
IN4148	CR8, CR9, CR10
IN270	CR11, CR12
DIODE, IN4938, 200V	CR5, CR6, CR7
TRANSFORMER	T1

ECR PENDING
N774

01	N104	4-11-97					
REV	ECR NO	DATE					

PIGGYBACK BD. ASSY (CTC) MODEL 1260

NOVAMETRIX MEDICAL SYSTEMS, INC. WALLINGFORD, CT U.S.A. 06492

PART NUMBER

SIZE	DRAWING NO	CODE	REV
D	2409	01	01

SCALE 2/1 SHEET 1 OF 1

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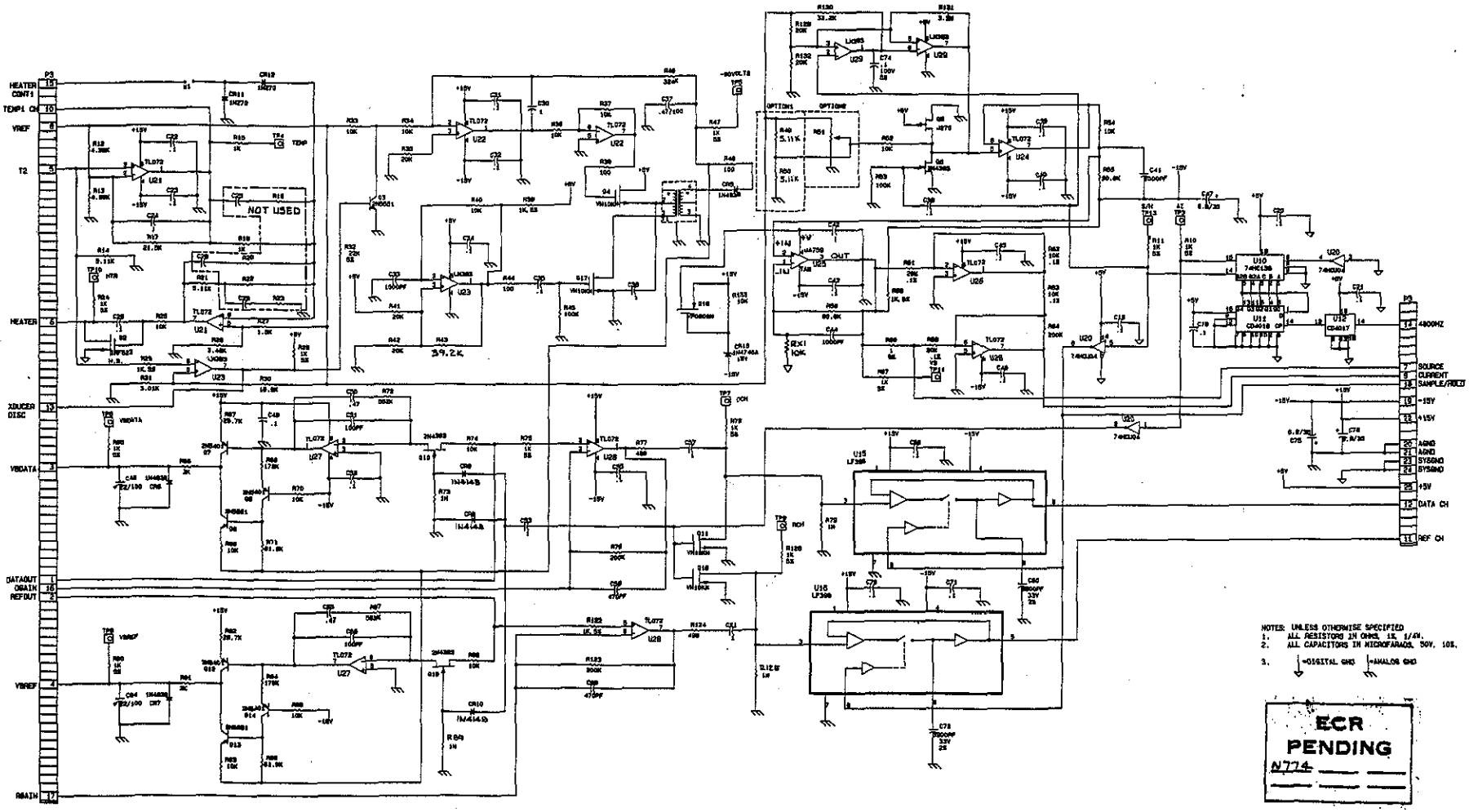

SCHEMATIC, PIGGYBACK BD, MODEL 1260			NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492	
			SIZE D	DRAWING NO. 2409
			CODE 03	REV 01
			SCALE —	SHEET 1 OF 0

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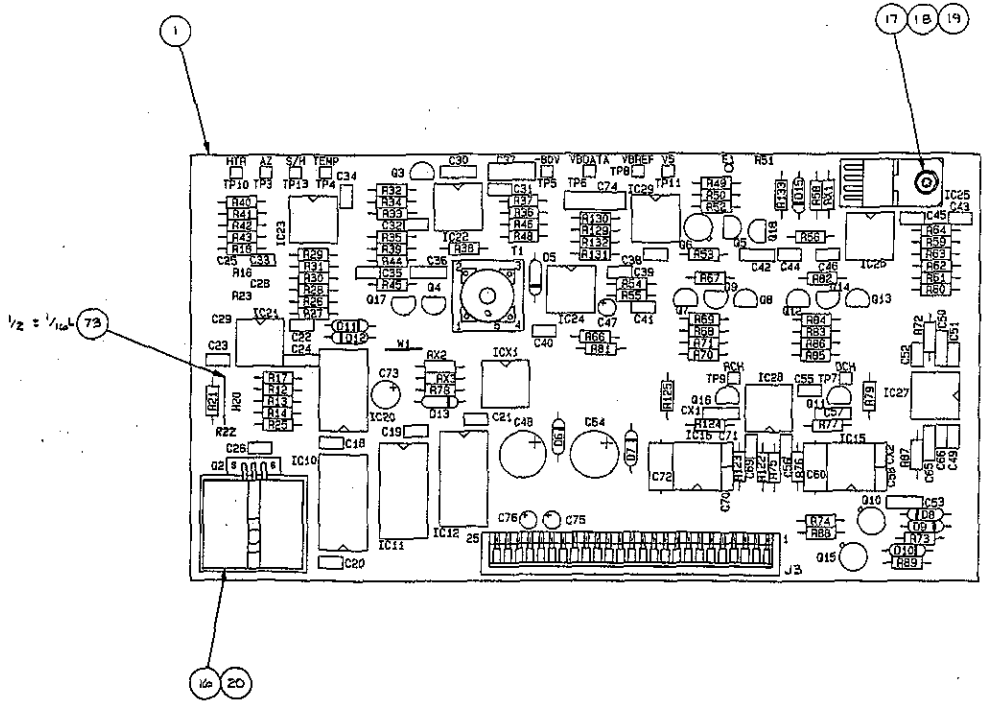

DESCRIPTION	REF DES
DIODE, 1N4746	D15
1N4148	D8-D10, D13
1N270	D11, D12
DIODE, 1N4938	D5-D7
TRANSISTOR, 2N5401	Q7, Q9, Q12, Q14
2N5551	Q3, Q8, Q13
2N4393	Q6, Q10, Q15
VN10KM	Q4, Q11, Q16, Q17
IRF523	Q2
U270	Q5
TRANSISTOR, VP0808N	Q18
IC, CD4018	IC11
CD4017	IC12
74HC138	IC10
LM393N	IC23 IC29
TL072	IC21, IC22, IC24, IC26, IC27, IC28
LF398	IC15, IC16
UA76QUIC	IC25
74HCU04	IC20
IC, MAX821	ICX1
TRANSFORMER	T1
TEST POINTS	TP3-TP11, TP13
CONNECTOR, 25 PIN	J3

DESCRIPTION	REF DES
RESISTOR, 100Ω 1/4W 1%	R38, R44, R48
499Ω	R77, R124
1K	R18, R28, R29, R39, R58, R75, R122
1.5K	R27
2K	R66, R81
4.99K	R12, R13
5.11K	R14, R21, R49, R50
10K	R25, R33, R34, R36, R37, R40, R52, R54, R65, R70, R74, R83, R85, R88, R133, RX1, RX2
20K	R35, R41, R42, R129, R132
21.5K	R17
24.9K	RX3, R78
33.2K	R130
80.6K	R55, R56
100K	R45, R53
200K	R64, R76, R123
1M	R73, R79, R89, R125
3.01K	R31
178K	R69, R84
324K	R46
3.48K	R26
562K	R72, R87
3.3M	R131
39.2K	R43
22.1K	R32
61.9K	R71, R86
16.9K	R30
1Ω	R60
28.7K 1%	R67, R82
10K .1%	R62, R63
RESISTOR, 20K, 1/4W, 1%	R59, R61
CAPACITOR, .001uf, 1%, 50V	C33, C41, C44
6.8uf, 35V	C75, C76, C47
22uf, 100V	C48, C64
470pf, 100V	C56, C69
1uf, CERAMIC	C24, C30, C36, C53, C67, CX1, C42
100pf, 50V	C51, C66
.47uf, 50V	C50, C65
.1uf	C18-C23, C26, C31, C32, C34, C35, C38-C40, C43, C45, C46, C49, C52, C55, C70, C71, CX2, C58
.47uf, 100V	C37
3900pf, POLY	C60, C72
.1uf, 100V	C74
CAPACITOR, 10uf, 25V	C73

ECR PENDING
N706 N732 N731

2nd ECR PENDING
N769 N773

02	N137	GB	10/4/88
01	N123	GB	24 MAR 88
REV.			

DO NOT SCALE UNLESS OTHERWISE INDICATED DIMENSIONS ARE IN DRAWING UNITS
TOLERANCE: FRACT ± 1/64 DEC ± .015 ANG ± 1°
MATERIAL
FINISH

TITLE: PIGGYBACK BD ASSY, MODEL 1260 & 7000
DRAWN GB 24MAR88
MFG. ENGR.
D4983-01

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD CT. USA 06492
SIZE D | DRAWING NO. 2418 | REV 01 | SHEET 02
SCALE 2/1 SHEET 1 OF 1

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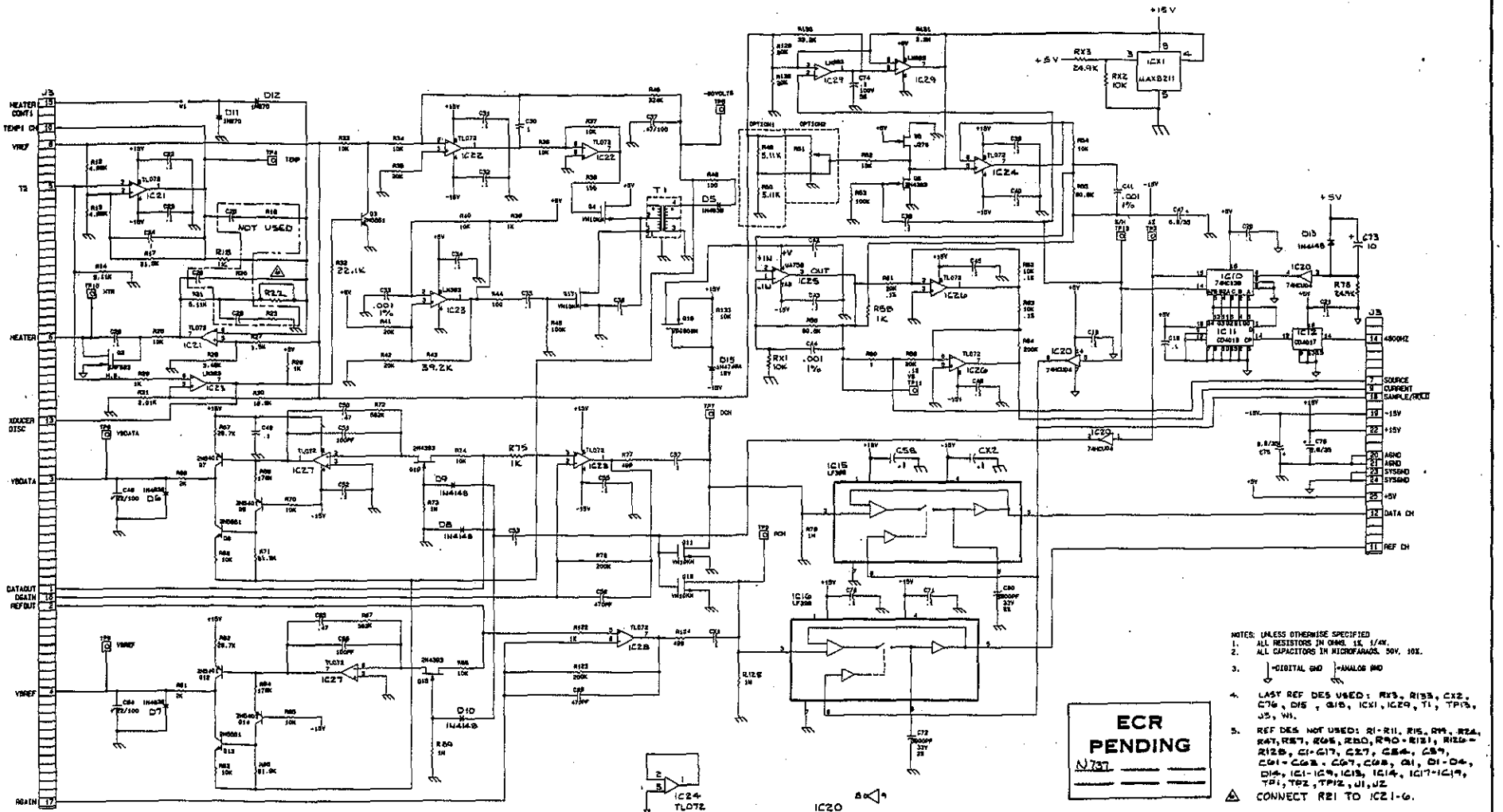

NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS IN OHMS, 1%, 1/4W.
2. ALL CAPACITORS IN MICROFARADS, 50V, 10%.
3. ⏚ = DIGITAL GND, ⏚ = ANALOG GND
4. LAST REF DES USED: RX3, R133, CX2, C76, D15, Q15, IC21, IC29, T1, TP13, J3, W1.
5. REF DES NOT USED: R1-R11, R15, R19, R24, R47, R57, R65, R80, R90-R121, R132-R135, C1-C17, C27, C54, C57, C61-C63, C67, C68, Q1, D1-D4, D14, IC1-IC9, IC13, IC14, IC17-IC19, TP1, TP2, TP12, J1, J2.

⚠ CONNECT R21 TO IC21-6.

02	N137						
01	N123						
REV	TR	BY DATE					

TITLE: SCHEMATIC, PIGGYBACK BD, MODEL 1260 & 7000			
DRAWN: GDS 23MAR88	CHECKED: BG		
APPR: DW			
USED ON: 02418-01			
NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD CT USA 06492			
SIZE: D	DWG NO: 2418	REV: 03	SHEET: 02
SCALE: —			SHEET 1 OF 2

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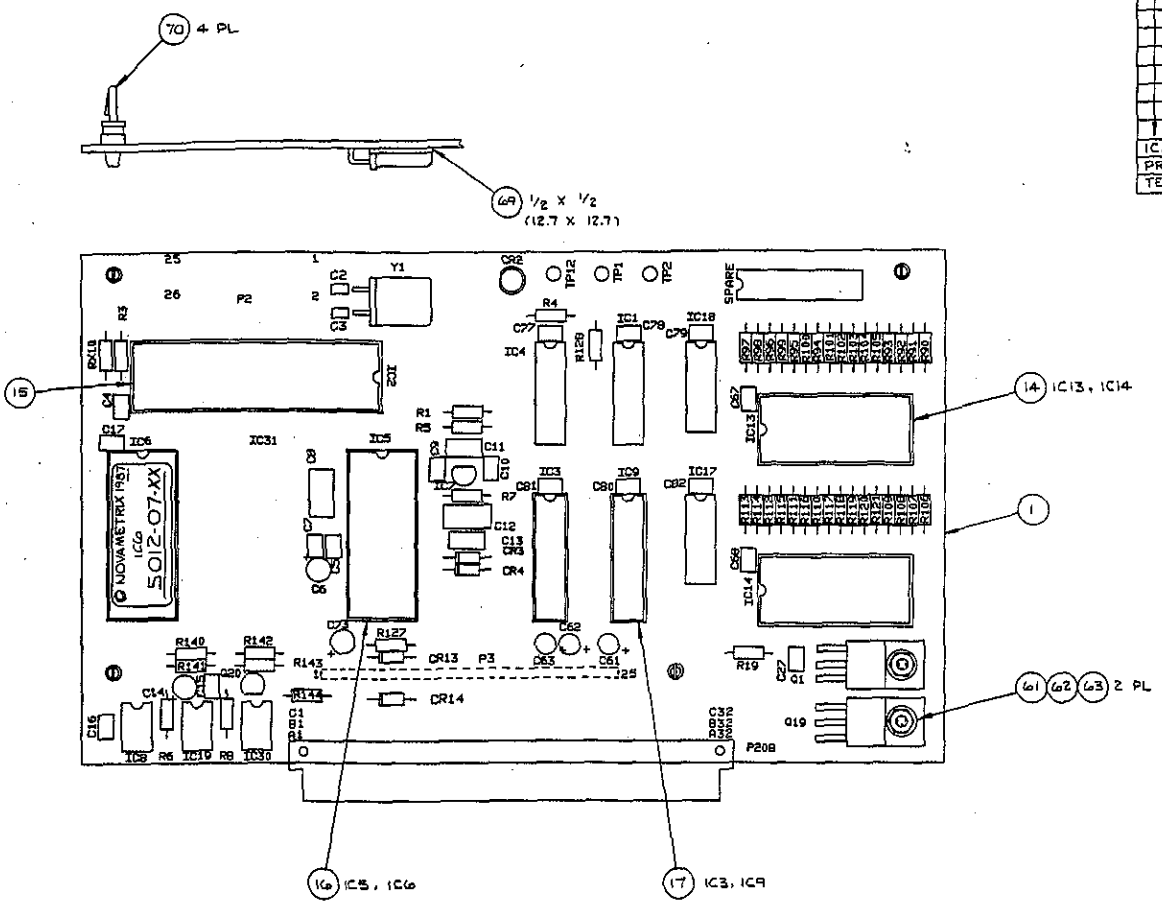

DESCRIPTION	REF DES
IC, LM3Z0LZ-5	IC7
HD63780IVOP	IC12
74HC273N	IC3, IC9
CD4066	IC13, IC14
MC14053	IC1
AD7582KN	IC5
74HC32N	IC18
74HC138	IC4
74HC00N	IC17
TL072	IC19, IC20
IC, REF02	IC8
PROGRAM, 5012-07	IC6
TEST TERMINAL	TP1, TP2, TP12

DESCRIPTION		REF DES
RESISTOR, 100Ω, 1/4W,	10%	R8
1.5K	10%	R4
22K	10%	R1, R3, R128, RX10
1K	1%	R5
3.32K		R103, R119
4.02K		R102, R118
6.04K		R99, R115
8.06K		R96, R112
10K		R6, R19, R93, R109, R143
10.7K		R92, R108
11.5K		R91, R107
12.1K		R90, R106
21.5K		R141
100K		R127
1M		R142
56.2K		R7
31.6K		R140
1.96K		R105, R121
2.61K		R104, R120
4.64K		R101, R117
5.36K		R100, R116
6.65K		R98, R114
7.32K		R97, R113
8.87K		R95, R111
9.31K	1%	R94, R110
RESISTOR, 47K, 1/4W,	10%	R144
CAPACITOR, 10µf, 25V		C6, C14, C73
22µf, 25V		C61, C62, C63
1µf, CERAMIC		C11
15PF, 100V		C2, C3
2200PF, 33V		C8
560PF, 33V		C13
3900PF, 33V		C12
CAPACITOR, .1µf		C4, C5, C7, C9, C10, C15-C17, C27, C67, C68, C77-C82
DIODE, IN4148		CR3, CR4
DIODE, IN270		CR13
DIODE, IN4001		CR14
LED, MV548, RED		CR2
TRANSISTOR, 2N3904 NPN		Q20
TRANSISTOR, IRF523N		Q1, Q19
CRYSTAL, 2.4576 MHz		Y1
CONNECTOR, 96 PIN		P208
CONNECTOR, 25 PIN		P3

00	N137	08 JUL 88	
NO.	ITEM	BY DATE	

DO NOT SCALE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES BREAK ALL SHARP EDGES

TOLERANCES DEC. 1 PLACE ± 1/32 (.8) ANGLES ± 1/2 DEG

MATERIAL —

FINISH —

TITLE: FRONT END BD ASSY, MODEL 1260 & 7000

DRAWN CB 19JUL88 | CHECKED SM 12 AUG 88 | MFG ENGR | APPROVED | SIZE D | DRAWING NO 2421 | REV 01 | SHEET 00

MATERIAL NO 05177-01 | SCALE 2/1 | SHEET 1 OF 1

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492

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IC CHART

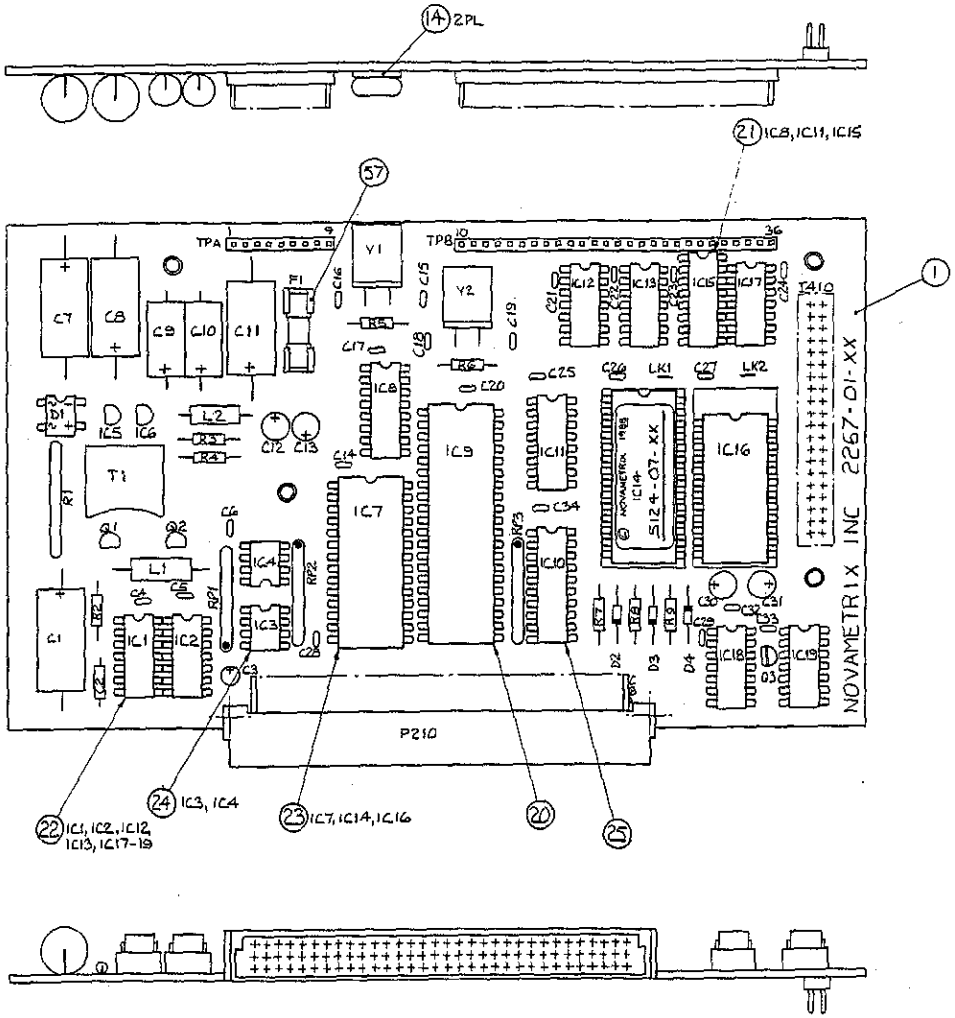
REF DES	TYPE	+5V	+15V	A GND	SYS GND	CAP
IC1	MC14053	16	-	-	8	C78
IC2	HD63780V0P	21	-	-	1	C4
IC3	74HC273	20	-	-	10	C81
IC4	74HC138	16	-	-	8	C77
IC5	AD7582KN	9	-	-	8	C5
IC6	27C64	28	-	-	14	C17
IC7	LM320LZ	-	-	-	-	-
IC8	REF02	-	2	4	-	C16
IC9	74HC273	20	-	-	10	C80
IC13	CD4067	24	-	-	12	C67
IC14	CD4067	24	-	-	12	C68
IC17	74HC00	14	-	-	7	C82
IC18	74HC32	14	-	-	7	C79
IC19	TL072	-	8	4	-	C15
IC30	TL072	-	-	-	-	-
IC31	HMG264-LP-15	28	-	-	14	-

NOTES:

1. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, 1/4W, 1%. CAPACITANCE VALUES ARE FARADS.
2. LAST REF DES USED: RX10, R144, C82, CR14, Q20, Y1, P208, P3, IC31, TP12.
3. REF DES NOT USED: R2, R9-R18, R20-R89, R122-R126, R129-R139, C1, C18-C26, C28-C60, C64-C66, C69-C72, C74-C76, CR1, CR5-CR12, Q2-Q18, IC10-IC12, IC15, IC16, IC20-IC29, TP3-TP11.
4. .1u DECOUPLING CAP TO BE FITTED ACROSS VDD & GND AT EACH IC. SEE CHART.

SPARES

TITLE: SCHEMATIC, FRONT END 80, MODEL 1260 & 7000			
DRAWN: GB 27JUL88	CHECKED: SM 12 AUG 88	APPROVED:	
NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492			
SIZE: D	DRAWING NO: 24-21	CODE: 03	REV: 00
SCALE: —	SHEET 1 OF 1		



DESCRIPTION	REF DES
IC CD4047BCN	IC1
74HC132N	IC2
HCPL2731 OPTO ISOL	IC3, IC4
LM2931AZ-5.0 VOLT REG	IC5, IC6
B2C51A PROG. COM. I'FACE	IC7
D3-4702-5	IC8
NSC800N-4 MICROPROCESSOR	IC9
74HCS73N	IC10
74HC138N	IC11
74HC74N	IC12
CD4024BE	IC13, IC17
5124-07-XX	IC14
CD4020BCN	IC15
HM6116LP4 RAM	IC16
74HC14N	IC18
74HC32N	IC19
TRANSISTOR 2N7000	Q1, Q2
TRANSISTOR VN10LM FET	Q3
DIODE DF02M BRIDGE RECT	D1
DIODE IN4148 SILICON G.P.	D2-4
CRYSTAL 2.4576 MHz VF246	Y1
CRYSTAL 8MHz	Y2

DESCRIPTION	REF DES
RESISTOR 100M 1W 5%	R1
143K ¼W 1%	R2
ART ¼W 10%	R3, R4
10M ¼W 10%	R5
1MΩ ¼W 1%	R6, R8, R9
10K ¼W 1%	R7
RES PACK 8X1KΩ SIL P1.COM.	RP1, RP2
RES PACK 8X100KSIL P1.COM.	RP3
CAP 1000µF 10V -10+50% ELEC	C1, C7, C8, C11
100pF 63V 1% POLYSTY	C2
100µF 6V3 TANT	C3
0µ1	C4-6, C14, C17, C20-28, C32-34
100µF 25V 10% ELEC	C9, C10
10µF 25V TANT	C12, C13, C30, C31
56pF 100V 5% 0·1"PITCH	C15, C16
33pF	C18
22pF	C19
0µ001 50V 0·1"PITCH X7R	C29
CHOKE 1mH 10% 0·25x0·5in.	L1
CHOKE 100µH	L2
TRANSFORMER ISOLATION	T1
FUSE 100mA FAST BLO SIZE20	F1
CONN 96PIN PLUG RT.ANGLE CARD	P210
40 PIN HDR DIL GOLD	J410
36 PIN HDR SIL GOLD	TP

ECR 2nd
PENDING
N743 N763

REV	BY	DATE
01	NJ37	27NOV87

PHYSIOLOGICAL INSTRUMENTATION LIMITED
A SUBSIDIARY OF NOVAMETRIX MEDICAL SYSTEMS INC

TOLERANCES EXCEPT WHERE OTHERWISE STATED
mm. ±
in. ±
DEG. ±
WOLES ±
FOR EXPLANATION OF DIM'NS AND SYMBOLS SEE BS308

SCALE 2:1
THIRD ANGLE PROJECTION
DIMENSIONS IN m.m. (in.)

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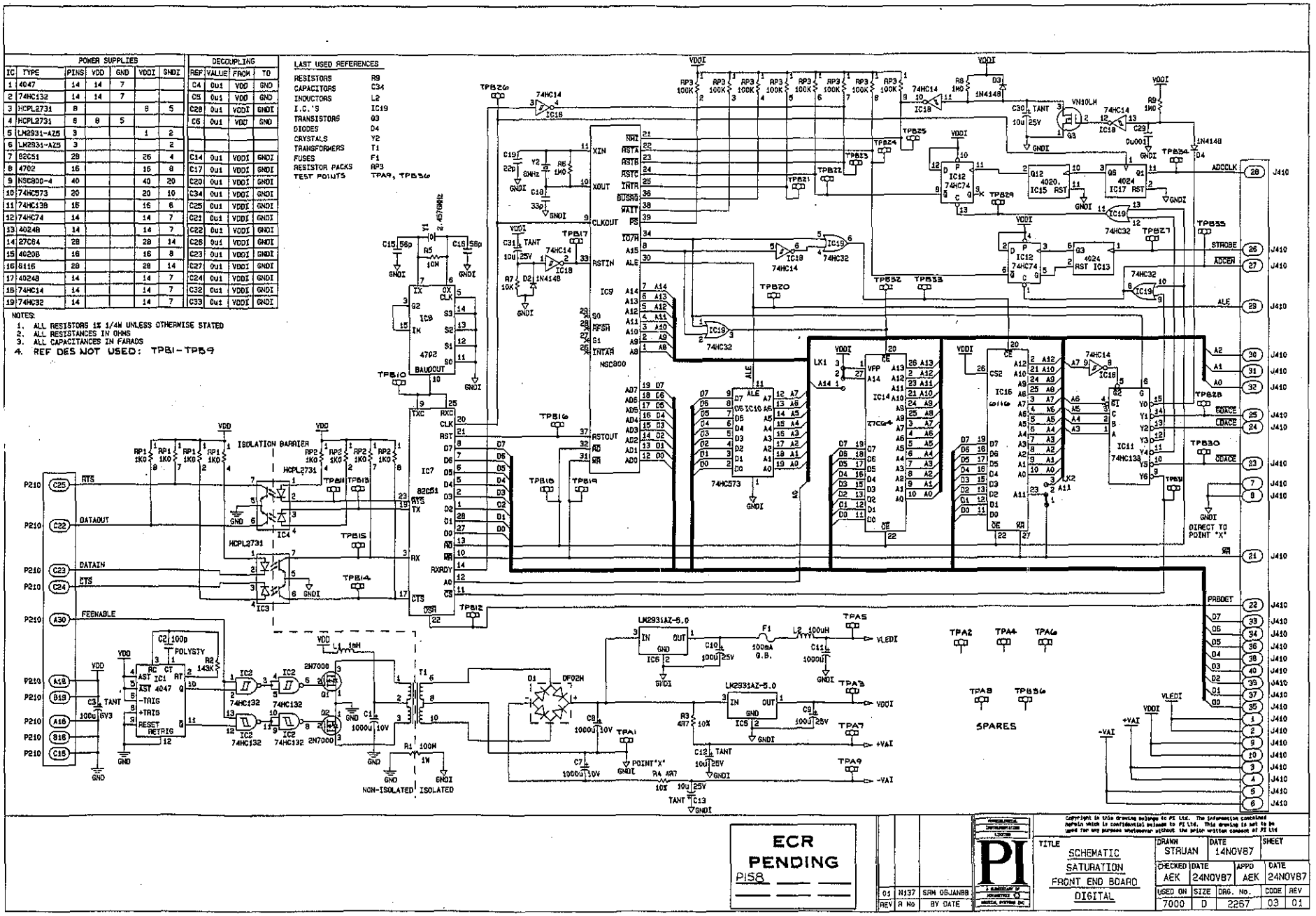
TITLE
ASSEMBLY
FRONT END BOARD
DIGITAL

		MATERIAL
DRAWN	STRJAN	
DATE	12NOV87	
CHKD.		
APPD		

USED ON | SIZE | DRG No | CODE | REV



POWER SUPPLIES					
IC	TYPE	PINS	VDD	GND	VDDI	GNDI
1	4047	14	14	7		
2	74HC132	14	14	7		
3	HCPL2731	8			8	5
4	HCPL2731	8	8	5		
5	LM2931-AZ5	3			1	2
6	LM2931-AZ5	3				2
7	82C51	28			26	4
8	4702	16			16	8
9	NSC800-4	40			40	20
10	74HC573	20			20	10
11	74HC138	16			16	8
12	74HC74	14			14	7
13	4024B	14			14	7
14	27C64	28			28	14
15	4020B	16			16	8
16	6116	28			28	14
17	4024B	14			14	7
18	74HC14	14			14	7
19	74HC32	14			14	7

DECOUPLING			
REF	VALUE	FROM	TO
C4	0u1	VDD	GND
C5	0u1	VDD	GND
C28	0u1	VDDI	GNDI
C6	0u1	VDD	GND
C14	0u1	VDDI	GNDI
C17	0u1	VDDI	GNDI
C20	0u1	VDDI	GNDI
C34	0u1	VDDI	GNDI
C25	0u1	VDDI	GNDI
C21	0u1	VDDI	GNDI
C22	0u1	VDDI	GNDI
C26	0u1	VDDI	GNDI
C23	0u1	VDDI	GNDI
C27	0u1	VDDI	GNDI
C24	0u1	VDDI	GNDI
C32	0u1	VDDI	GNDI
C33	0u1	VDDI	GNDI

LAST USED REFERENCES

RESISTORS	R9
CAPACITORS	C34
INDUCTORS	L2
I.C.'S	IC19
TRANSISTORS	Q3
DIODES	D4
CRYSTALS	Y2
TRANSFORMERS	T1
FUSES	F1
RESISTOR PACKS	RP3
TEST POINTS	TPA9, TPB36

NOTES:
1. ALL RESISTORS 1% 1/4W UNLESS OTHERWISE STATED
2. ALL RESISTANCES IN OHMS
3. ALL CAPACITANCES IN FARADS
4. REF DES NOT USED: TPB1-TPB9

ECR PENDING
PI58

REV	R No	BY	DATE
03	N137	SRM	06JAN88

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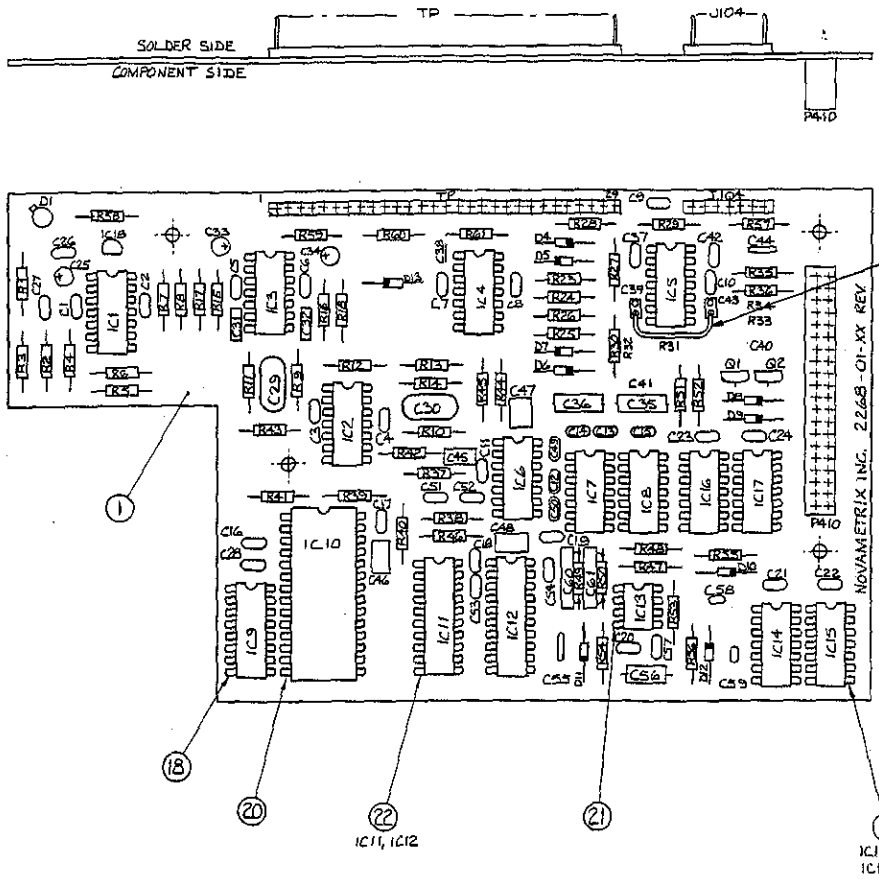
TITLE	DRAWN	DATE	SHEET
SCHEMATIC SATURATION FRONT END BOARD DIGITAL	STRUAN	14NOV87	
	CHECKED AEK	DATE 24NOV87	APPD AEK DATE 24NOV87
	USED ON 7000	SIZE D	DRG. No. 2267	CODE 03	REV 01

20 JUL 1988



DESCRIPTION	REFERENCE
CAPACITOR 0µ1 CERAMIC	C1-24, C26, C27, C28, C37, C42, C49-54, C57
6µ8 25V 10% TANT RADIAL	C25
680pF 5% 500V MICA	C29, C30
0µ068 50V 10% POLYESTER	C31
0µ015 50V 10% POLYESTER	C32
22µF 10% 15V TANT RADIAL	C33, C34
0µ0015 160V 1% POLYSTY	C35, C36
100pF 100V 2% CERAMIC	C44
0µ22 100V 5% POLYESTER	C45, C46
1µ0 63V 10% POLYESTER	C47, C48
220pF 100V 2% CERAMIC	C55
0µ001 50V 1% MYLAR	C56
0µ001 50V CERAMIC	C58
560pF 100V CERAMIC	C59
47pF 5% 500V MICA	C60, C61
WIRE LINK	C38
I.C. LM324N QUAD OP AMP	IC1
TL064BCN OPAMP LOW OFFSET	IC2, IC3, IC5, IC6
TL064ACN QUAD BIFET II OP AMP	IC4
LM324AN QUAD OP AMP	IC7
CD4066B QUAD BILATERAL SWITCH	IC8
AD7524JN 8BIT D/A CONVERTER	IC9
AD7581JN CMOS INTERFACE	IC10
AD7528LN D/A CONVERTER	IC11
AD7528JN CMOS INTERFACE	IC12
ICM7555IPA CMOS TIMER	IC13
MM74HC14N CMOS	IC14
MM74HC132N CMOS	IC15
MM74HC08N QUAD 2I/P AND	IC16
MM74HC164N CMOS	IC17
LM3342 LINEAR	IC18
CONNECTOR 40 WAY D.I.L.	P410
CONNECTOR, 7 PIN	J104
TEST POINT, 29 PIN	TP1 - TP29

DESCRIPTION	REFERENCE
RESISTOR 13K0 1% ¼W	R1
12K7 1% ¼W	R2
402K 1% ¼W	R3
100K 1% ¼W	R4, R5, R26, R54, R57, R60
150K 1% ¼W	R6
60K4 1% ¼W	R7
10K 1% ¼W	R8, R54
100K 0·1% ¼W	R9, R10, R11, R13, R41, R42
200K 0·1% ¼W	R12, R14
75K 0·1% ¼W	R15
300K 0·1% ¼W	R16
15K 0·1% ¼W	R17, R18
47K5 1% ¼W	R23
8K06 1% ¼W	R24
1M0 1% ¼W	R25, R45, R46, R27
200K 1% ¼W	R47, R48
562K 1% ¼W	R28
4K99 1% ¼W	R30
40.2K. 1% ¼W	R29
47K5 1% ¼W	R35, R36
147K 1% ¼W	R37, R38
78K7 1% ¼W	R39, R40
1K0 0·1% ¼W	R43, R44
68K1 1% ¼W	R49, R50
3R3 1% ¼W	R51
5R6 1% ¼W	R52
57K6 1% ¼W	R53
20K 1% ¼W	R55
1K0 1% ¼W	R58, R59
4·99K9 1% ¼W	R61
NOT IN CIRCUIT	R19, R20, R21
DIODE ZENER 4V7 500mW	D13
DIODE ICL8069CCO ZENER 1V2	D1
DIODE IN4148 SILICON GP SIGNAL	D4-12.
TRANSISTOR ZTX109C NPN	Q1, Q2.

ECR PENDING	
P106	N689
N728	

2nd ECR PENDING	
N738	N742

Q1 N1372 STRIAN

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TOLERANCES EXCEPT WHERE OTHERWISE STATED: mm. ± .8, in. ± 1/32, DEG. ± ~, HOLES ± ~. FOR EXPLANATION OF DIM AND SYMBOLS SEE

SCALE 2:1 — THIRD ANGLE PROJECTION — DIMENSIONS IN mm (in.)

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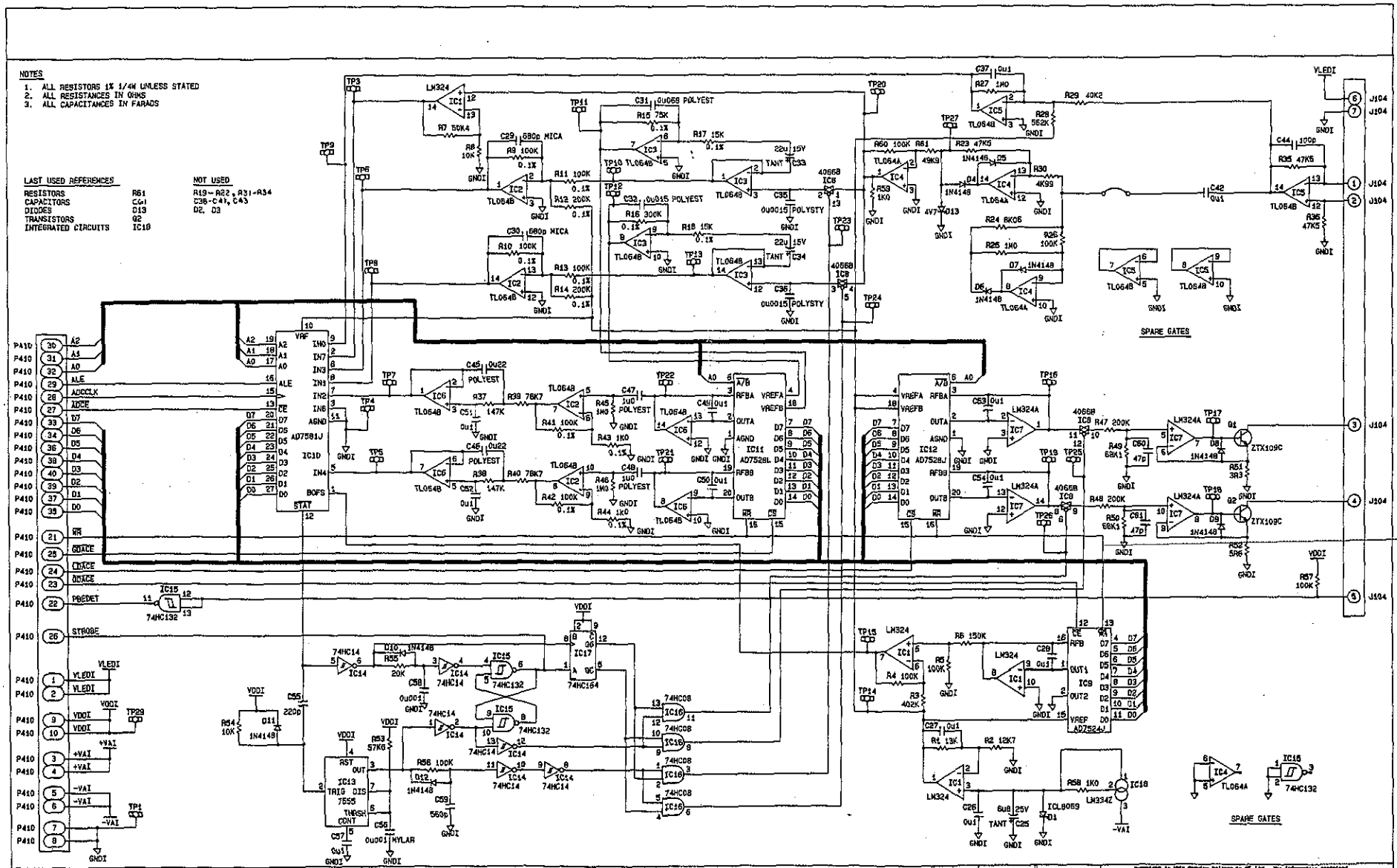
TITLE: SATURATION ANALOG FRONT END BOARD

DRAWN	STRIAN	MATERIAL
DATE	15SEP87	
CHKD.		
APPD.		

USED ON ISSUE [illegible] DRG. No. [illegible]

ISSUE DATE/MOD



01	N137	SRM 5JAN88	
REV	ECN	BY DATE	

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TITLE	DRAWN	DATE	SHEET
SCHEMATIC SATURATION FRONT END ANALOG BOARD	STRUAN	27NOV87	1 OF 2
	CHECKED A.E.K.	DATE 7DEC87	APPD A.E.K.
	USED ON 7000	SIZE D	DRG. NO. 2268
			CODE 03
			REV 01

20 JUL 88

POWER SUPPLIES								DECOUPLING			
IC	TYPE	PINS	VLEDI	VDDI	+VAI	-VAI	GNDI	REF	VALUE	FROM	TO
1	LM324	14			4	11		C1	0u1	+VAI	GNDI
								C2	0u1	-VAI	GNDI
2	TL064B	14			4	11		C3	0u1	+VAI	GNDI
								C4	0u1	-VAI	GNDI
3	TL064B	14			4	11		C5	0u1	+VAI	GNDI
								C6	0u1	-VAI	GNDI
4	TL064A	14			4	11		C7	0u1	+VAI	GNDI
								C8	0u1	-VAI	GNDI
5	TL064B	14			4	11		C9	0u1	+VAI	GNDI
								C10	0u1	-VAI	GNDI
6	TL064B	14			4	11		C11	0u1	+VAI	GNDI
								C12	0u1	-VAI	GNDI
7	LM324A	14			4	11		C13	0u1	+VAI	GNDI
								C14	0u1	-VAI	GNDI
8	4066B	14		14			7	C15	0u1	VDDI	GNDI
9	AD7524J	16		14			3	C16	0u1	VDDI	GNDI
10	AD7581J	28		26			14	C17	0u1	VDDI	GNDI
11	AD7528L	20		17			5	C18	0u1	VDDI	GNDI
12	AD7528J	20		17			5	C19	0u1	VDDI	GNDI
13	7555	8		8			1	C20	0u1	VDDI	GNDI
14	74HC14	14		14			7	C21	0u1	VDDI	GNDI
15	74HC132	14		14			7	C22	0u1	VDDI	GNDI
16	74HC08	14		14			7	C23	0u1	VDDI	GNDI
17	74HC164	14		14			7	C24	0u1	VDDI	GNDI
18	LM334Z	3				3					

REV	A No	BY	DATE
01	N137	SRH	5JAN88

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TITLE
SCHEMATIC
SATURATION
FRONT END
ANALOG BOARD

DRAWN	DATE	SHEET
STRUAN	27NOV87	2 OF 2

CHECKED	DATE	APPD	DATE
A.E.K.	7DEC87	A.E.K.	7DEC87

USED ON	SIZE	DRG. No.	CODE	REV
7000	D	2268	03	01

20 JUL 88

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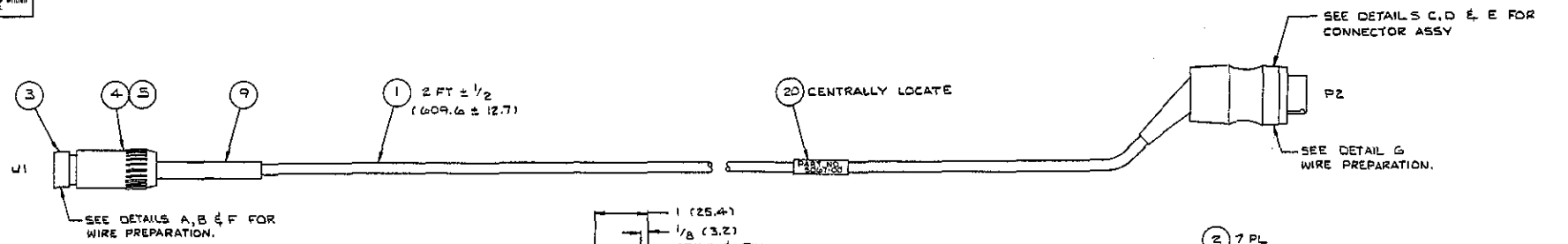
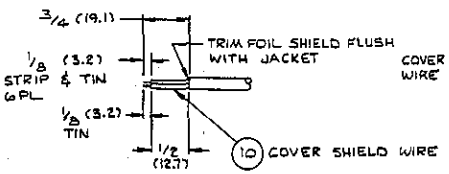
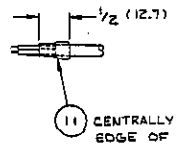
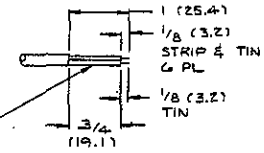




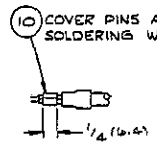
DETAIL A



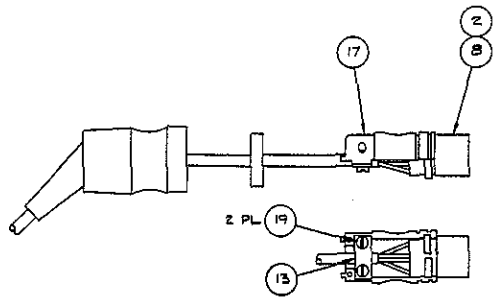
DETAIL B



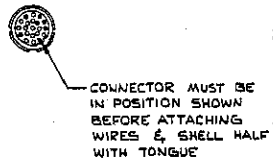
DETAIL G

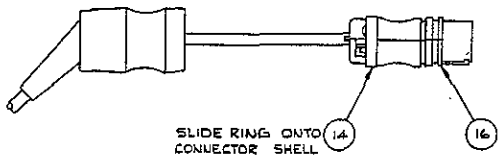


DETAIL F

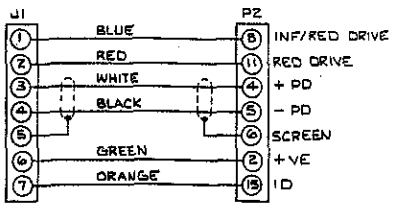


DETAIL C

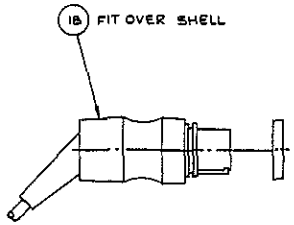




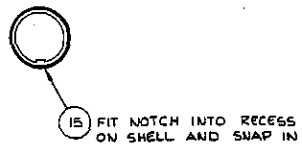
DETAIL D



SCHEMATIC DIAGRAM



DETAIL E



TITLE	ADAPTER CABLE ASSY, MODEL 500 SNSR TO MODEL 7000		
DRAWN GB 11APR88	CHECKED SM 17 MAY 88		
M.E. ENGR. BW 16AUG88	MFG. ENGR. 16AUG88		
USED ON 7000		SIZE D	DRAWING NO. 5067
		CODE 00	REV. 00

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492

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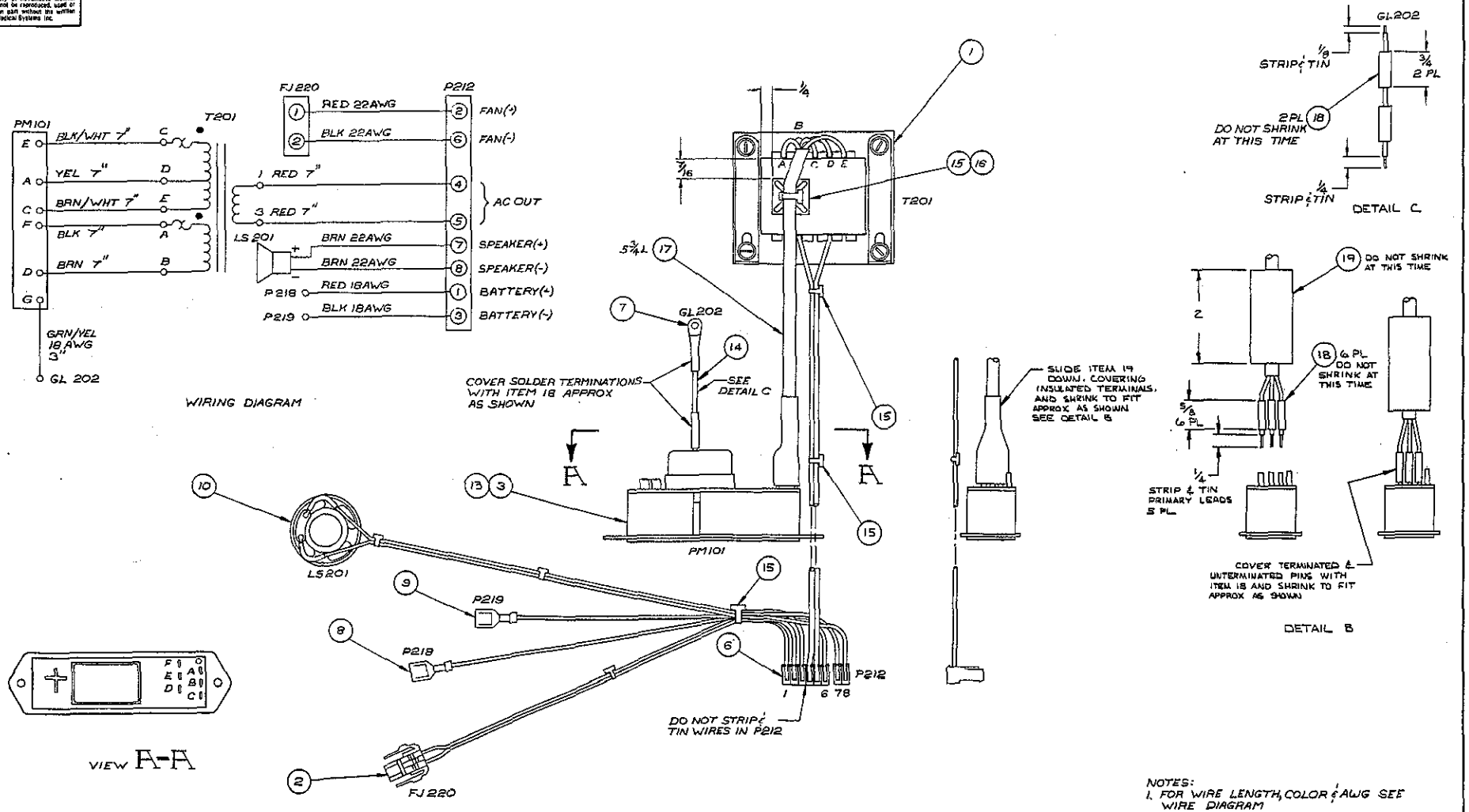

NOTES:
1. FOR WIRE LENGTH, COLOR & AWG SEE WIRE DIAGRAM

02	N123	GB 10MAR98			
01	N104	JMT 4.06.97			
REV	"P"NO.	BY/DATE			

DO NOT SCALE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES SURFACE FINISH 63 MICRO-INCH

TOLERANCES
DEC. ± .__ FRAC. ± 1/64 ANGL. ± 1°

MATERIAL ~

FINISH ~

TITLE: POWER HARNESS ASSY, MODEL 1260

DRAWN: CRITELLI 3.4.97

APPROVED: B.P. Lombardi 3.4.97

MFG APPR: BW

APPROVED: 3.4.97

VERSION: 1260

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492

SIZE D | DRAWING NO. 5006 | CODE 01 | REV 02

SCALE 2/1 | SHEET 1 OF 1

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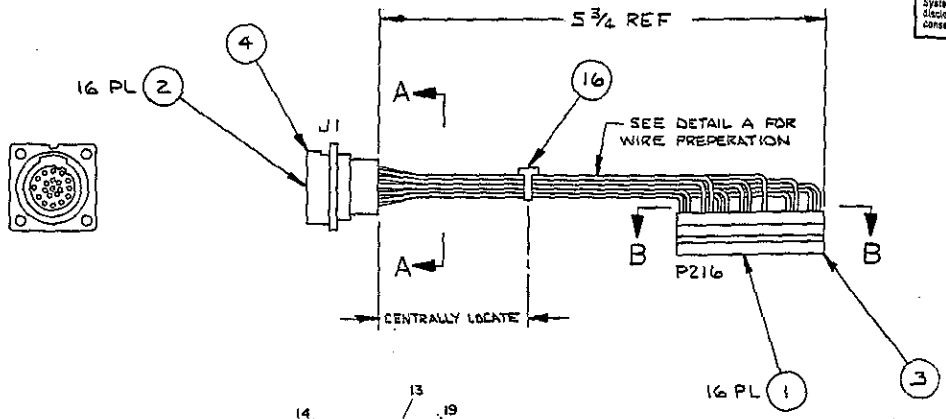
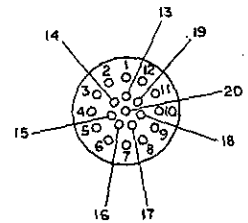


J1			P216	
1	WHT	24AWG 5 7/8"	29	SOURCE
3	GRA	24AWG 4 7/8"	9	Vb REF
4	BLU	24AWG 4 5/8"	3	REF OUT
6	RED	24AWG 4 1/2"	1	DATA OUT
7	WHT/BRN	24AWG 4 3/4"	7	Vb DATA
9	GRN	24AWG 5 3/8"	17	HEATER
10	ORN	24AWG 5 7/8"	32	OUTSIDE SHLD
12	BRN	24AWG 6"	38	-15V
13	ORN	24AWG 5 7/8"	30	SOURCE SHLD
14	WHT/RED	24AWG 5 1/8"	13	Vb
15	VIO	24AWG 5"	11	Tz
16	RED	24AWG 6"	35	+5V
17	BLK	24AWG 5 5/8"	23	BOOST
18	BRN	24AWG 6"	36	-15V
19	GRN	24AWG 6"	37	+15V
20	WHT/BLK	24AWG 5 7/8"	31	A GND

WIRING DIAGRAM



REAR VIEW A-A
SCALE : 2/1

REAR VIEW B-B

16 PL - BOTH ENDS
DO NOT TIN

DETAIL A
SCALE : 2/1

ECR PENDING
N779

NOTES:
1. FOR WIRE LENGTH, COLOR & AWG SEE WIRING DIAGRAM.

01	N104	3/4 30 NOV. 87	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES BREAK ALL SHARP EDGES TOLERANCES DEC ± .1 FRAC ± 1/32" HOLES ± .005-.003 ANG ± ~	TITLE CO2 INPUT HARNESS, MODEL 1260	NOVAMETRIX MEDICAL SYSTEMS, INC. WALLINGFORD, CT U.S.A. 06492	
			MATERIAL ~	DRAWN MRL 9-15-87 CHKD BW APPROVED 9-15-87	PART NUMBER	
			FINISH ~	SCALE 1/1 USED ON 1260	SIZE C DRAWING NO 4998 CODE 01 REV 01	
REV	"P" NO	BY DATE				

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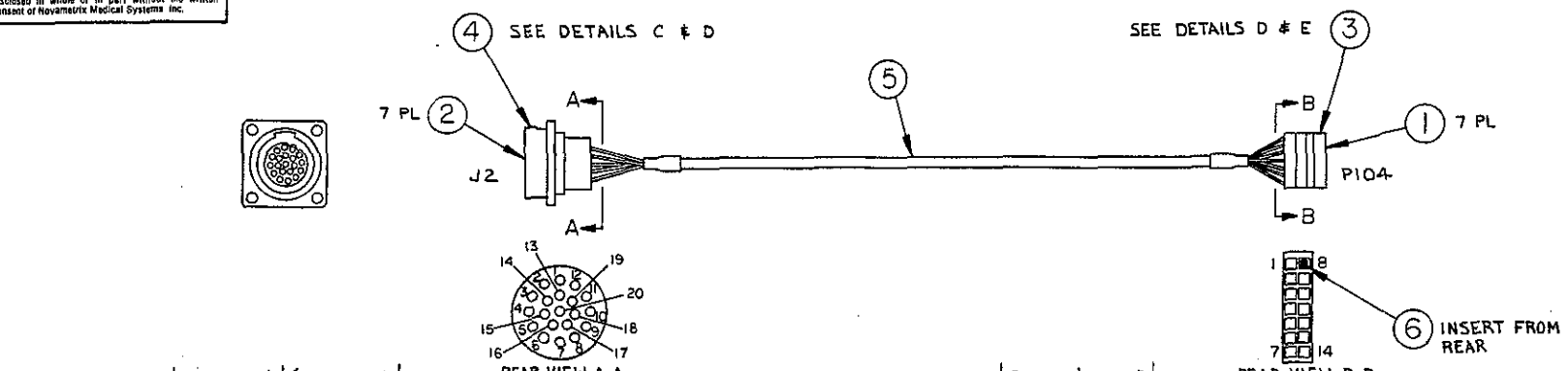

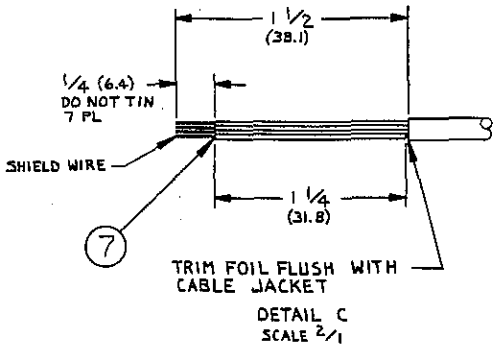

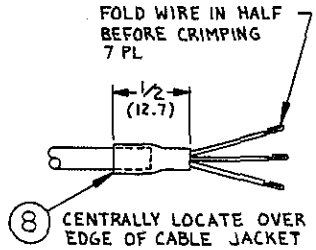

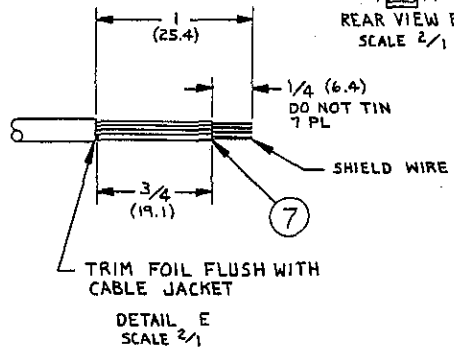

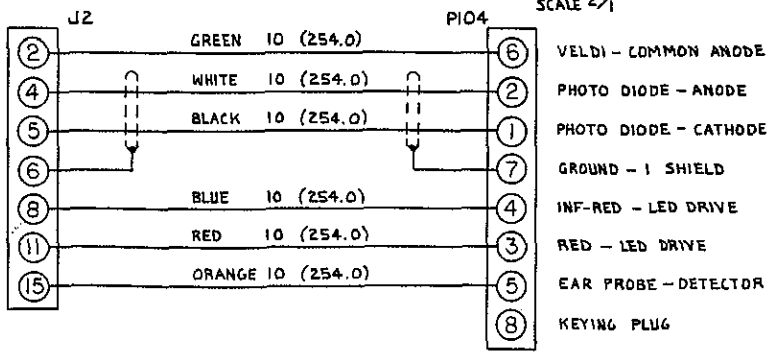
J2
P104
2 GREEN 10 (254.0) 6 VELDI – COMMON ANODE
4 WHITE 10 (254.0) 2 PHOTO DIODE – ANODE
5 BLACK 10 (254.0) 1 PHOTO DIODE – CATHODE
6 7 GROUND – 1 SHIELD
8 BLUE 10 (254.0) 4 INF-RED – LED DRIVE
11 RED 10 (254.0) 3 RED – LED DRIVE
15 ORANGE 10 (254.0) 5 EAR PROBE – DETECTOR
8 KEYING PLUG

WIRING DIAGRAM

REV.	"N" NO.	BY DATE	DO NOT SCALE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm) BREAK ALL SHARP EDGES TOLERANCES DEC. ± FRAC. ± 1/32 (.8) HOLES ANG. ±	TITLE: O_2 INPUT HARNESS ASSY, MODEL 7000	NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492
			MATERIAL: ~	DRAWN SM 12 MAY 88 CHECKED GB	SIZE C DRAWING NO. 5062 CODE 01 REV. 00
			FINISH: ~	MFG. ENGR. BW 12 MAY 88 APPROVED	SCALE 1/1 SHEET 1 OF 1
				USED ON D5088-01	

MILFORD BLUEPRINT INC

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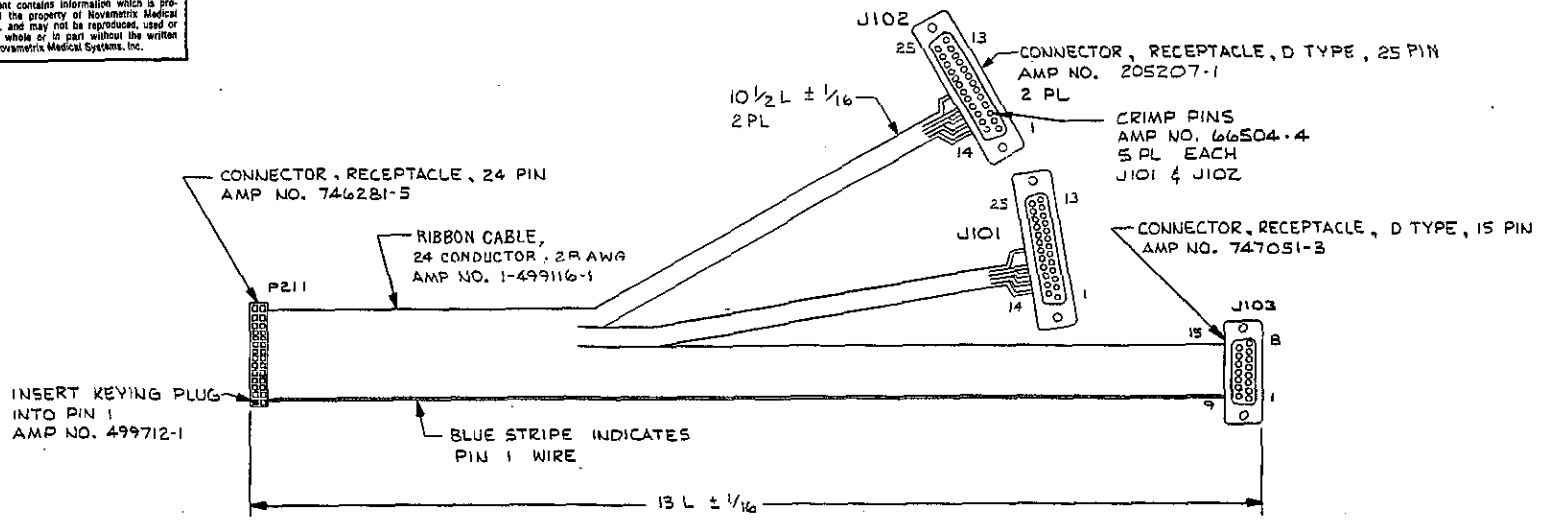

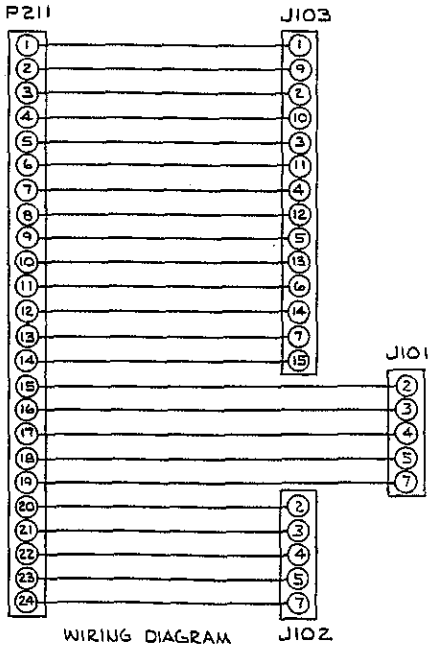

WIRING DIAGRAM

ECR PENDING

N1090

REV	"N" NO	BY DATE
01	N137	18 JUN 88
00	N104	13 JAN 88

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES. TOLERANCES: DEC. ± —, FRAC ± —, HOLES ± .001-.000, ANG ± —

MATERIAL: MARSHALL NO. CPD-6119

FINISH: —

TITLE: RIBBON CABLE, REAR PANEL, MODEL 1260

DRAWN: SM 13 JAN 88 | CHKD: MAZ 13JAN88 | APPROVED: WG 3-4-88

SCALE: 1/1

USED ON: D5055-01

NOVAMETRIX MEDICAL SYSTEMS, INC. WALLINGFORD, CT U.S.A. 06492

PART NUMBER

SIZE	DRAWING NO	CODE	REV
C	5074	10	01

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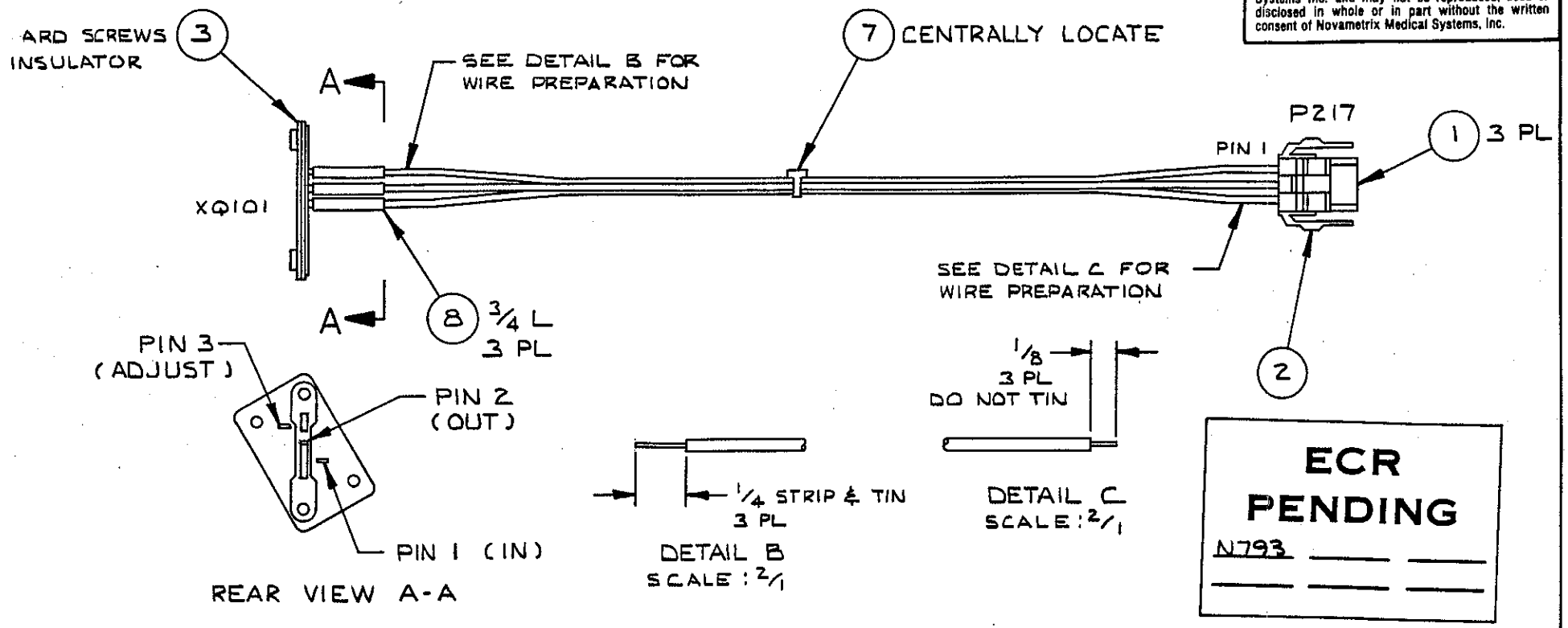
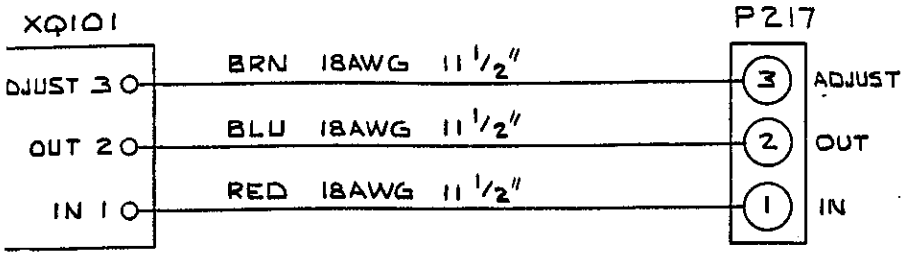


ECR PENDING
N793

1. FOR WIRE LENGTH, COLOR & AWG SEE WIRING DIAGRAM.



WIRING DIAGRAM

REV.	"R" NO.	BY DATE
01	N123	GB 17MAR88

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES BREAK ALL SHARP EDGES
TOLERANCES: DEC. ± ~ FRAC. ± 1/32 HOLES ± .007-.003 ANG. ± ~
MATERIAL: ~
FINISH: ~

TITLE: REGULATOR HARNESS ASSY, MODEL 1260

DRAWN	CHECKED
M.R. LINEBACK 10SEP87	GOB 16SEP87
MFG. ENGR. BW	APPROVED 9-17-87
USED ON 1260	

NOVAMETRIX MEDICAL SYSTEMS, INC.
WALLINGFORD, CT U.S.A. 06492

SIZE	DRAWING NO.	CODE	REV.
B	5013	01	01

SCALE 1/1 SHEET 1 OF 1

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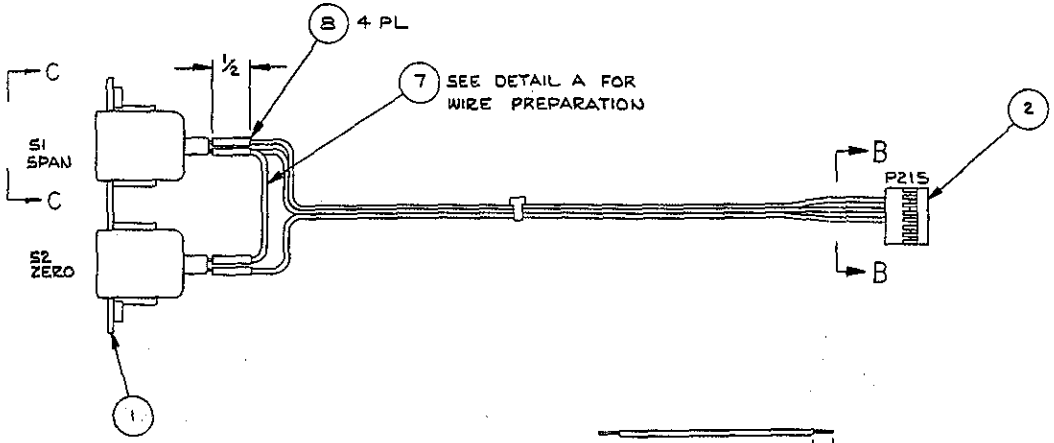
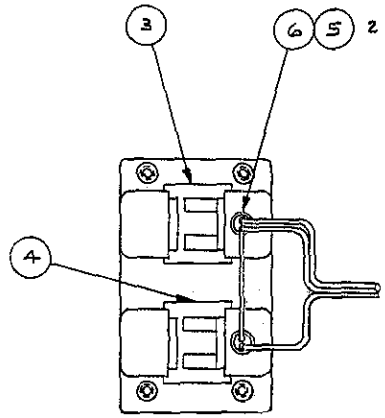
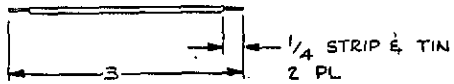
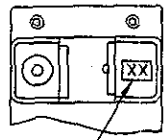




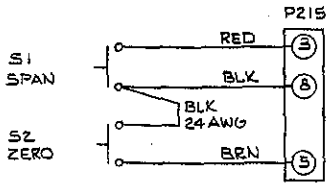


DETAIL A

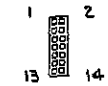


9 NUMBER ON LABEL TO CORRESPOND TO TORR VALUE OF SPAN CELL

VIEW C-C



SCHEMATIC DIAGRAM



REAR VIEW B-B

ECR PENDING

N716

REV	"N" NO	BY DATE
02	N137	GS 10 Jun 88
01	N123	GS 7-MAR-88

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES BREAK ALL SHARP EDGES
TOLERANCES: DEC ± .1/32 HOLES ± .007 .003 ANG ± —
MATERIAL —
FINISH —

TITLE: SENSOR CAL RCPT ASSY, MODEL 1260
DRAWN: GDB 3/6/88
CHKD: MRL
APPROVED: 11-5-87
SCALE: 1/1
USED ON: 04984-01

NOVAMETRIX MEDICAL SYSTEMS, INC.
WALLINGFORD, CT U.S.A. 06492

PART NUMBER

SIZE	DRAWING NO	CODE	REV
C	4959	01	02

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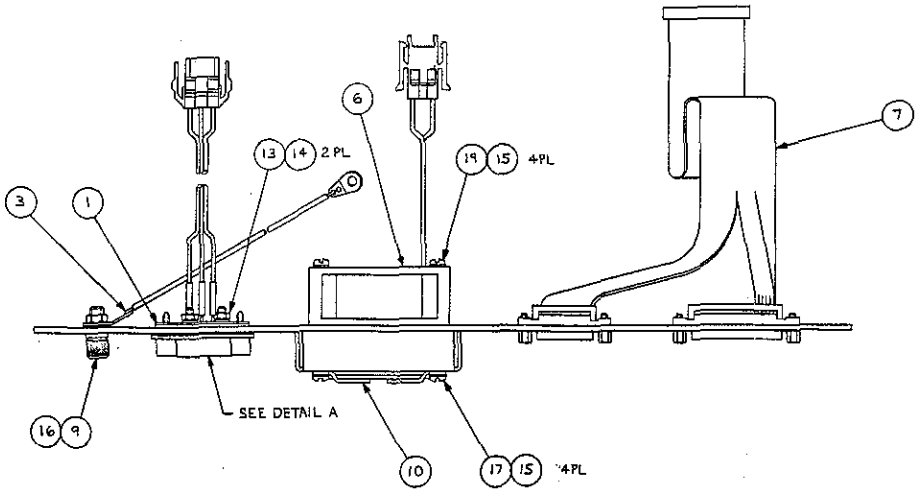
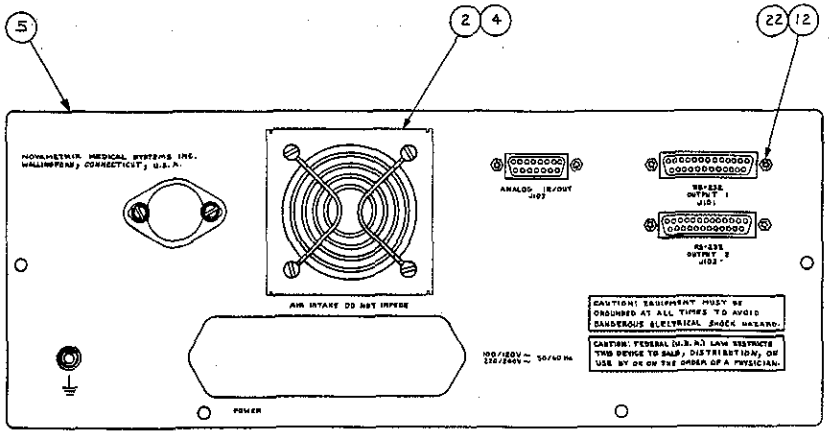
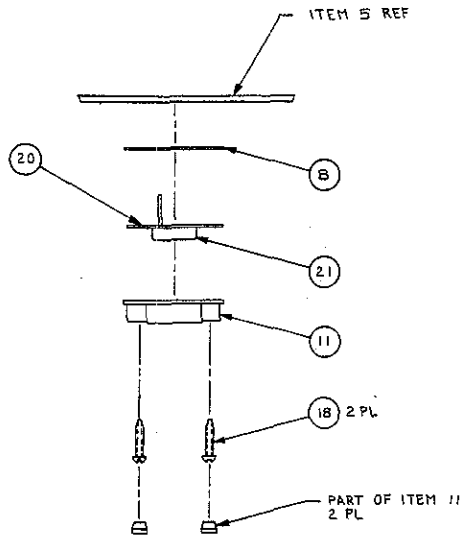



5
2 4
22 12 DISCARD EXTRA PARTS 3 PL
NOVAMETRIX MEDICAL SYSTEMS INC.
WALLINGFORD, CONNECTICUT, U.S.A.
ANALOG I/O/OUT
J107
RS-232 OUTPUT 1
J101
RS-232 OUTPUT 2
J102
AIR INTAKE DO NOT IMPEDE
CAUTION: EQUIPMENT MUST BE GROUNDED AT ALL TIMES TO AVOID DANGEROUS ELECTRICAL SHOCK HAZARD.
CAUTION: FEDERAL (U.S.A.) LAW RESTRICTS THIS DEVICE TO SALE, DISTRIBUTION, OR USE BY OR ON THE ORDER OF A PHYSICIAN.
100/120V~ 50/60 Hz
220/240V~ 50/60 Hz
POWER



DETAIL A

ECR PENDING N722

REV	DESCRIPTION	BY	DATE
02	N187	GB	10 DEC 97
01	N123	GB	9 DEC 97
00	N104		

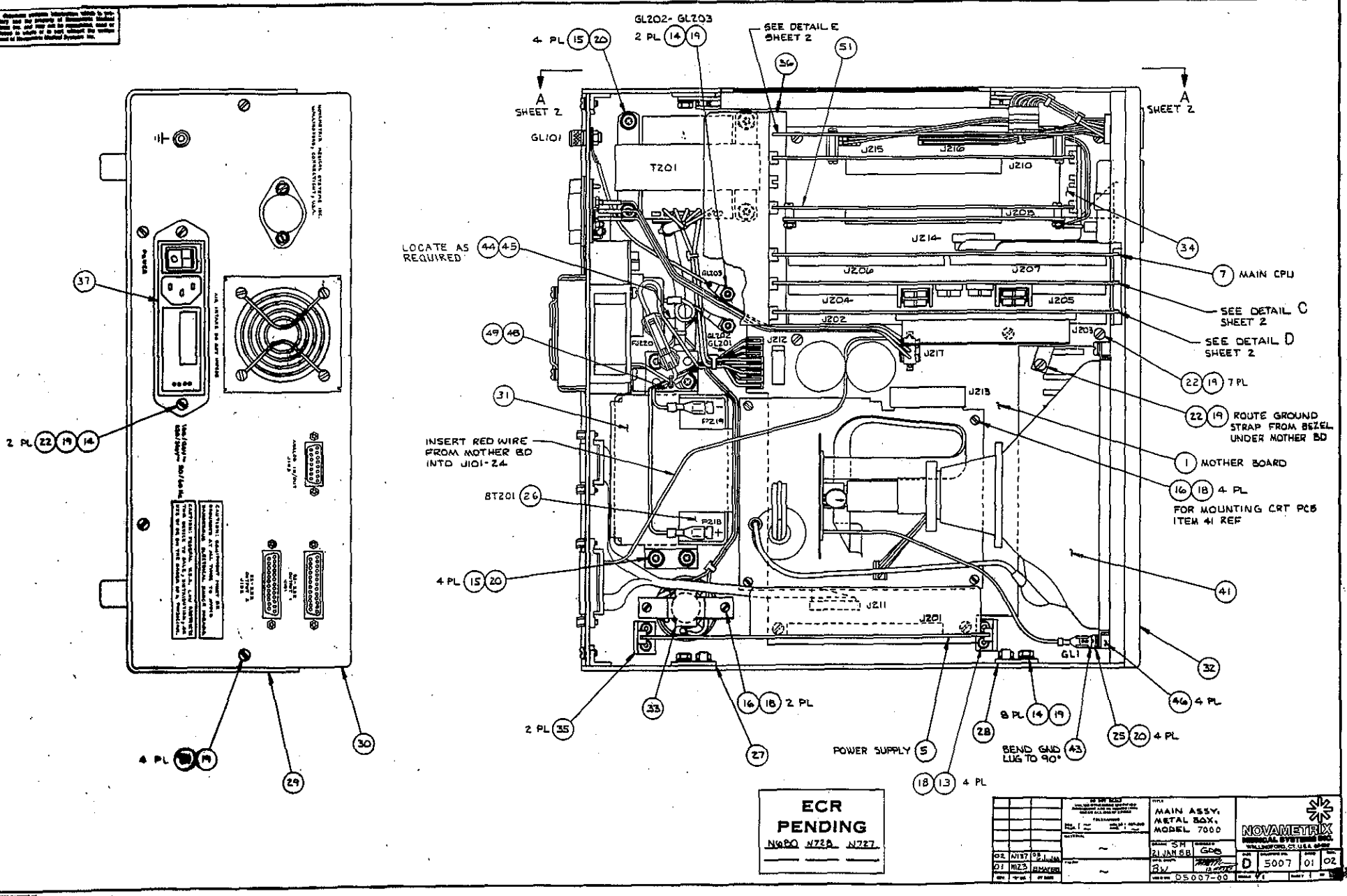
REAR PANEL ASSEMBLY, MODEL 1260

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. 06492

SIZE D | DRAWING NO. 5055 | REV 01 | SHEET 02

MATERIAL ~ | FINISH ~ | DRAWN 9 DEC 97 | CHECKED | ENG APPR. | MFG APPR. | QUALITY APPR. | DO NOT SCALE DRAWING | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | REMOVE ALL BURRS & SHARP EDGES | TOLERANCES: FRAC. ± 1/64 | DEC. ± .01 | ANG. ± 1°

SCALE 1/1 | SHEET 1 OF 1



ECR PENDING

N680 N728 N727

MAIN ASSY, METAL BOX, MODEL 7000

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. USA 06492

SM 21 JAN 88 GDG BW

D5007-00

D 5007 01 02

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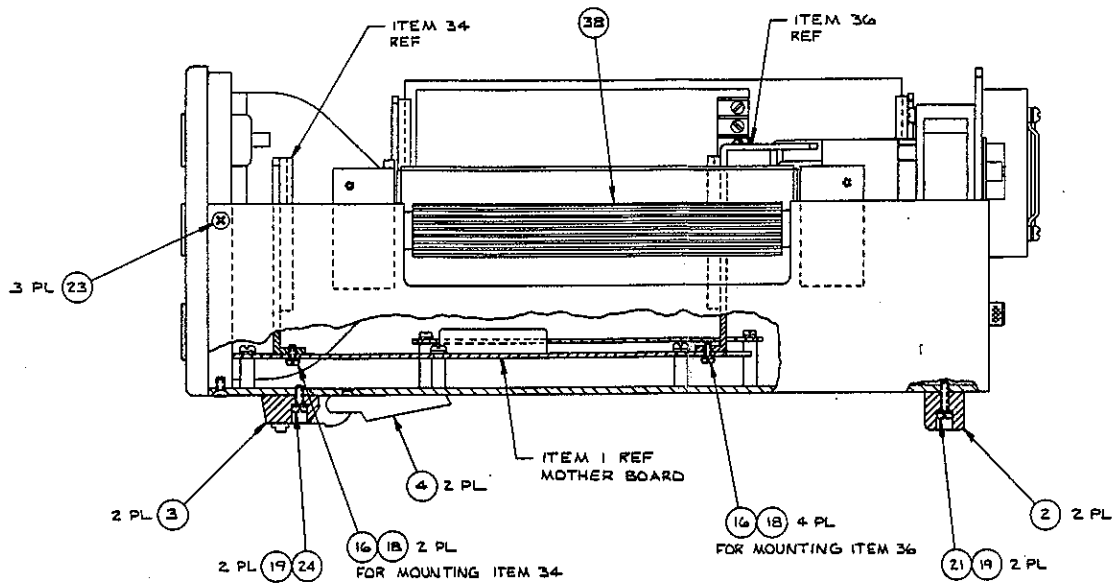
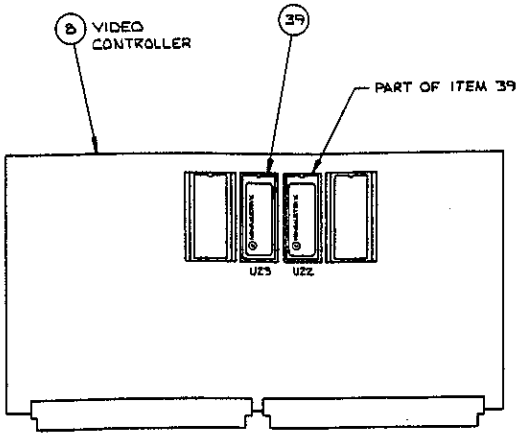
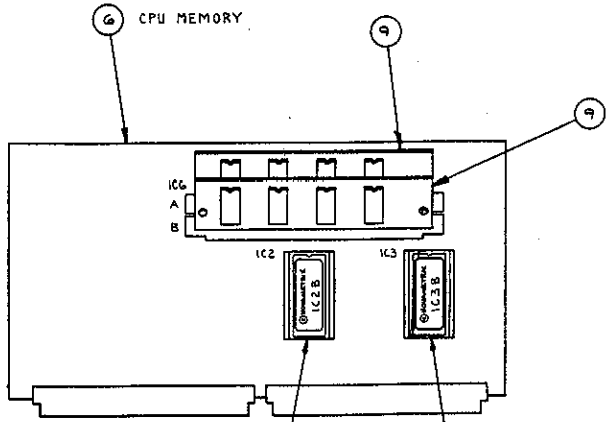


VIEW A-A

NOTE: WIRING & SOME DETAILS DELETED FOR CLARITY.



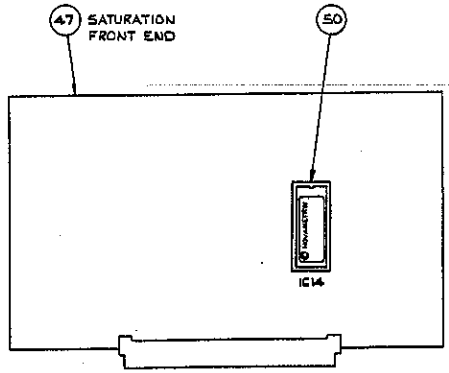
DETAIL C



PART OF ITEM 40

DETAIL D

40 IC2A & IC3A MUST BE INSTALLED INTO SOCKETS FIRST



DETAIL E

ECR PENDING N680 N728 N747

TITLE	MAIN ASSY, METAL BOX, MODEL 7000		
DRAWN	SM 19 JAN 88	APPROVED	GDB
	BW		
NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A.			
SIZE	D	5007	01 02
SCALE	1/1		
05007-00			

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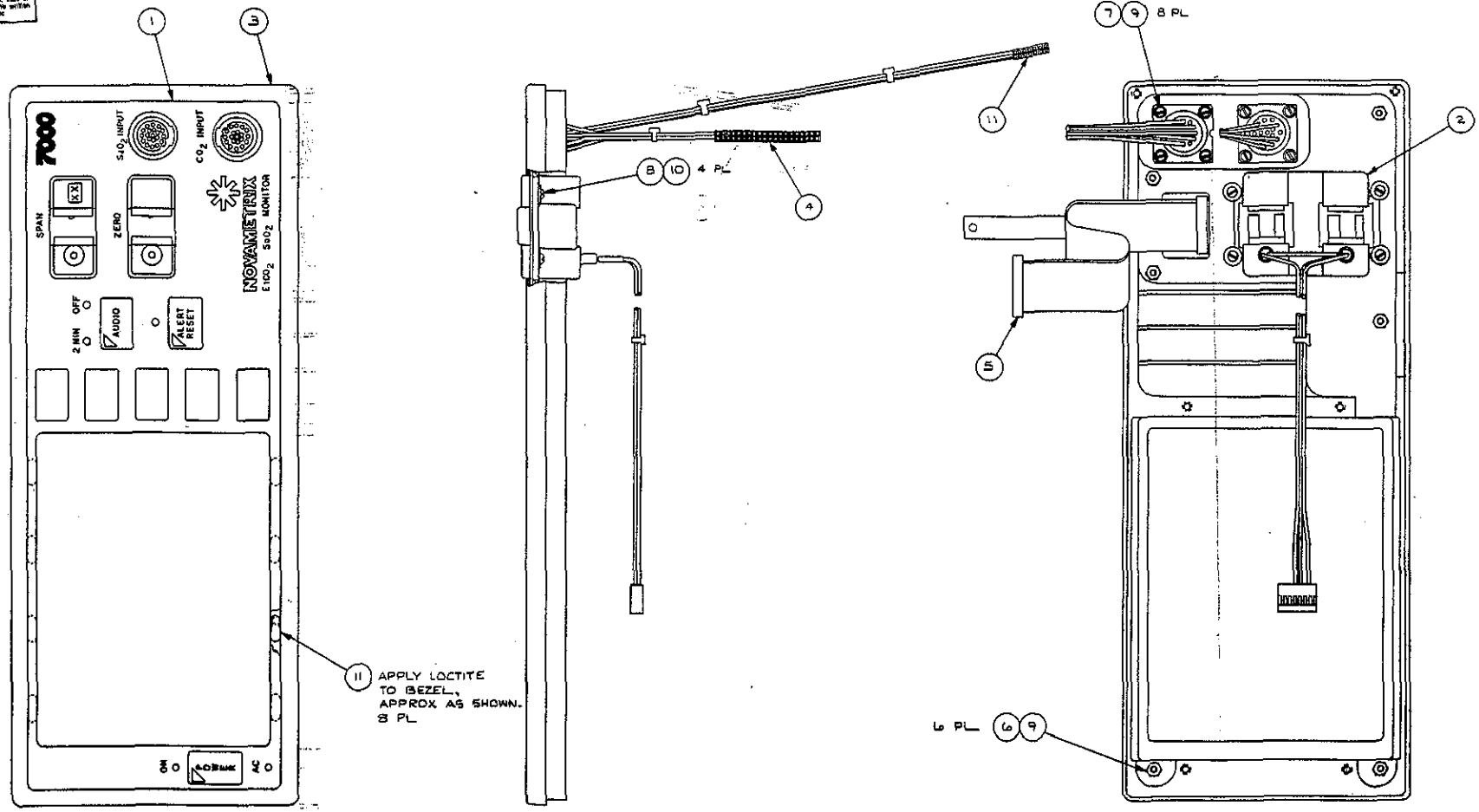

02	NJST	RH					
01	NJST	RH					

TITLE	BEZEL ASSY, MODEL, 7000		NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. USA 06492
DRAWN SH	12 JAN 88	CHECKED CC8	
ENGR RW			SIZE D
MATERIAL —			SCALE 5088
FINISH —			REV 01
DWG NO D5007-01			SHEET 02

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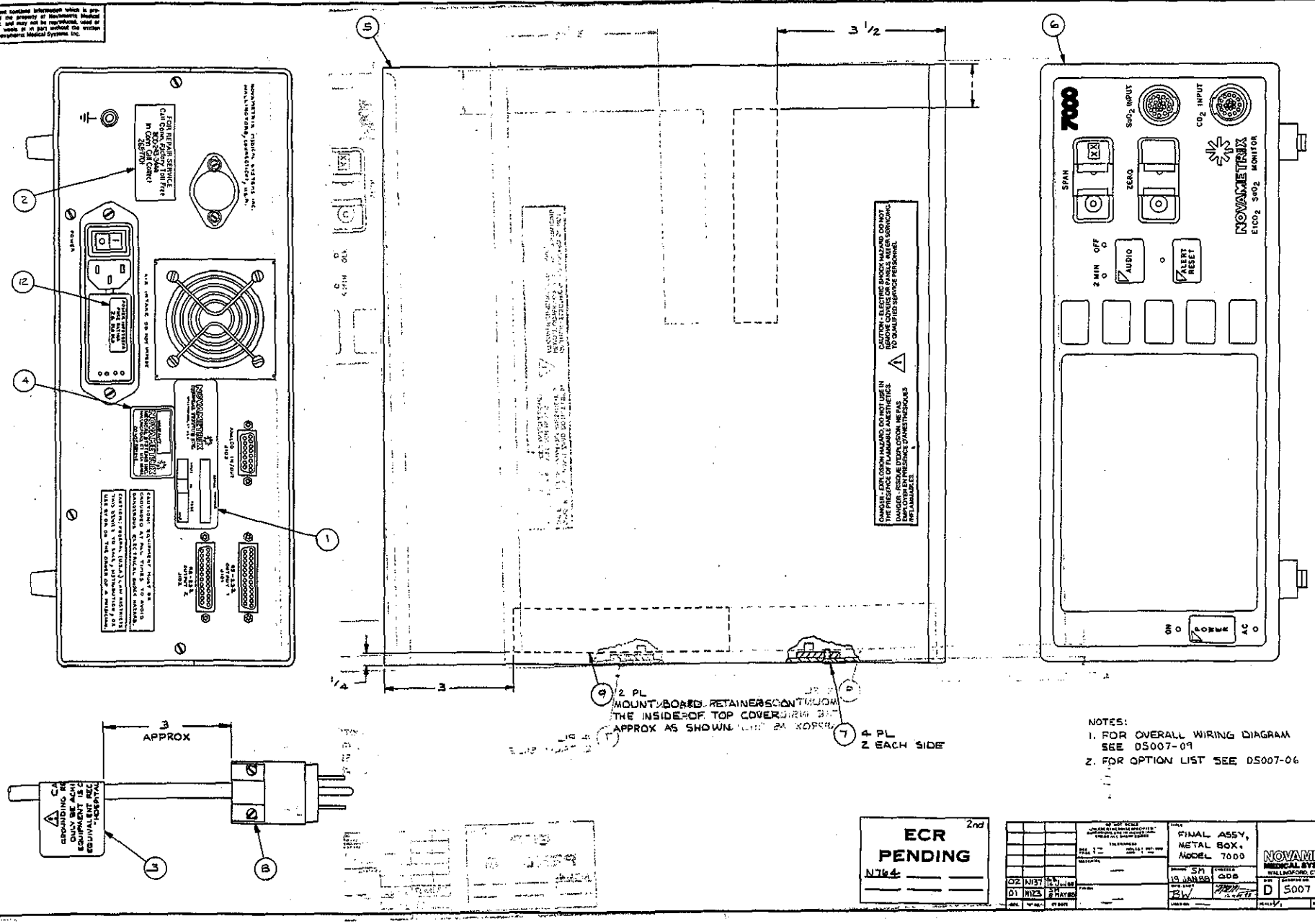

NOTES:
1. FOR OVERALL WIRING DIAGRAM SEE DS007-09
2. FOR OPTION LIST SEE DS007-06

ECR PENDING 2nd
N764

02	NV37		
01	NV23	SM 8 MAY 98	

FINAL ASSY, METAL BOX, MODEL 7000

SM 19 JAN 98 | GDB | BW

NOVAMETRIX MEDICAL SYSTEMS INC. WALLINGFORD, CT. U.S.A. (06492)

SIZE D | 5007 | REV 8 | SHEET 02